ThinkPad®

Personal Systems Reference Lenovo® ThinkPad® Edge Series and SL Series Notebooks

July 2011 - Version 403

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ThinkPad®

Lenovo® ThinkPad Edge E220s

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ThinkPad® Edge E220s 5038 (TopSeller)

Type-model	Processor	Memory	Wide-screen display	Camera	Disk SATA GB[8] rpm	PCIe Mini Card WLAN	PCIe Mini Card WWAN /mSATA	Carrier	Finger print reader	Blue-tooth	Bat-tery cells	Preload
5038-2NU	i7-2617M	4GBx1	12.5" HD	720p	320G 7200	Intel 1000	None	None	Finger	Blue	8	Pro 64
5038-2MU	i7-2617M	4GBx1	12.5" HD	720p	320G 7200	Intel 1000	None	None	Finger	Blue	8	Prem 64
5038-2LU	i5-2537M	4GBx1	12.5" HD	720p	320G 7200	TP 11b/g/n	None	None	Finger	Blue	8	Prem 64
5038-2KU	i5-2537M	4GBx1	12.5" HD	720p	320G 7200	Intel 1000	None	None	Finger	Blue	8	Pro 64
5038-4DU	i3-2357M	4GBx1	12.5" HD	720p	320G 7200	TP 11b/g/n	None	None	Finger		8	Prem 64
5038-4EU	i3-2357M	4GBx1	12.5" HD	720p	320G 7200	TP 11b/g/n	None	None	Finger		8	Pro 64
☞ 5038-4MU	i5-2467M	4GBx1	12.5" HD	720p	320G 7200	Intel 1000	None	None	Finger	Blue	8	Pro 64

- ***These small and medium business (SMB) models are part of the US TopSeller™ Program***
- ***These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)***

Positioning	*Elegant design with quality, reliability, and portability for SMB customers; one spindle*
Processor	**Intel® Core™ i3-2357M processor (dual-core, 1.30GHz, 3MB Cache)**, DDR3 memory controller (up to 1333MHz), Hyper-Threading technology **Intel Core i5-2467M processor (dual-core, 1.60GHz, 3MB Cache)**, DDR3 memory controller (up to 1333MHz), Intel Turbo Boost 2.0 (2.30GHz), HT technology **Intel Core i5-2537M processor (dual-core, 1.40GHz, 3MB Cache)**, DDR3 memory controller (up to 1333MHz), Intel Turbo Boost 2.0 (2.30GHz), HT technology **Intel Core i7-2617M processor (dual-core, 1.50GHz, 4MB Cache)**, DDR3 memory controller (up to 1333MHz), Intel Turbo Boost 2.0 (2.60GHz), HT technology
Memory	4GB max[7] / PC3-10600 1333MHz DDR3, non-parity, one 204-pin SO-DIMM socket
Optical	None
SATA disk	*Some:* Solid State Drive (SSD) / SATA 3.0Gb/s, 2.5" wide, 7mm high *Some:* Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm high, Active Protection System™ *All:* removable, upgradable, Shock Mounted Hard Drive
mSATA	None
Widescreen display	**12.5"** (317.5mm) **HD (1366x768) color**, anti-glare display with glossy infinity glass, LED backlight, 200 nits, 16:9 aspect ratio, 300:1 contrast ratio
Camera	HD720p resolution, wide view angle, low light sensitive, fixed focus
Graphics	**Intel HD Graphics 3000** in processor, external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI™ (supporting HDCP to output protected content); supports dual independent display; *Max external resolution:* 2048x1536 (VGA)@75Hz; 1920x1200 (HDMI port)@60Hz
Keyboard	6-row, spill-resistant, multimedia Fn keys
TrackPoint®	TrackPoint® pointing device, Internet Scroll Bar[13]
Touch pad	UltraNav™, buttonless touchpad below keyboard, Tap Zones, scrolling regions, multi-touch
ThinkLight™	Illuminates the keyboard to improve visibility in low-light conditions
Dimensions[3]	*12.5W" (WxDxH):* 12.32" x 8.41" x 0.86"; 313mm x 213.5mm x 21.9mm
Weight[2]	starting at 3.23 lb (1.46kg)
Case color	Moss Black soft touch finish, authentic metal accents
Case material	Magnesium/Aluminum + PPS
Battery - type[37]	Integrated Lithium Ion 8-cell, 1000 cycle battery
Battery - life[10]	up to 6.0 hr
Chipset	**Mobile Intel HM65 Express Chipset**
ExpressCard/34	None
Multicard Reader	4-in-1 reader (MMC, SD, SDHC, SDXC)
Ports	Two USB 2.0 (one powered), one USB 2.0/eSATA combo port, external monitor (VGA DB-15, HDMI), ethernet (RJ-45)
PCIe Mini Card	Two PCI Express Mini Card slots
WLAN[4]	*Some:* ThinkPad 11b/g/n, PCIe Half Mini Card, Realtek® chipset, 1x1 *Some:* 11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 1000, 1x2
WWAN	None
Modem	None
Bluetooth™	*Some:* Bluetooth 3.0 wireless
Ethernet	Realtek® RTL8111E Gigabit Network Connection
Intel AMT	None
Audio support	High Definition (HD) Audio, Conexant 20671 codec, Dolby® Home Theater® v4 / stereo speakers, 1 watt x 2/ mono digital microphone, combo audio/mic jack
Security	Power-on password, hard disk password, supervisor password, security keyhole
Security chip	None
Fingerprint reader	UPEK Fingerprint reader on palm rest, swipe sensor
Limited warranty[12]	**1-year** - depot repair service / service upgrades[22] available

Preloaded operating system[20]
- *Some:* Genuine Windows® 7 Home Premium 64
- *Some:* Genuine Windows 7 Professional 64

Ready to install applications[14] (all OSes; only some listed)
- Rescue and Recovery™
- Access Connections™
- Fingerprint Software (fingerprint models)
- Password Manager (fingerprint models)
- ThinkVantage System Update
- ThinkVantage Power Manager
- ThinkVantage Toolbox

Preloaded applications[14] (all OSes; only some listed)
- Norton™ Internet Security 2011 (30 days of virus definitions)
- Adobe® Reader®
- Skype™ for Windows
- Windows Live™ Essentials
- Microsoft Office 2010 preloaded; purchase product key to activate
- Adobe Acrobat® X Standard (bundled with Microsoft Office)

Supports ThinkVantage® technologies

65-watt AC adapter
EPEAT™ Gold rating
ENERGY STAR® 5.0-compliant
RoHS-compliant
International Warranty Service[17]
24 hour x 7 day[18] toll-free support during the warranty period[12] via 800-426-7378

For compatible accessories, please go to O-E220-S sheet;

For ThinkPlus™, [22] service upgrade options, please go to S-EDGE sheet

See footnotes for more detailed information

☞ US model announced July 5, 2011; previous models on April 19 or June 21, 2011

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ThinkPad® Edge E220s Accessories

Memory

2GB PC3-10600 DDR3 L-H SODIMM	55Y3710	*ann 03/02/10*
2GB PC3-10600 DDR3 L-H SODIMM (25Pack)	57Y4416	*ann 03/02/10*
4GB PC3-10600 DDR3 L-H SODIMM	55Y3711	*ann 03/02/10*

Storage and removable storage

USB 2.0 Portable 320GB Hard Disk	45K1689	*ann 03/17/09*
USB 2.0 Portable 500GB Hard Disk	45K1690	*ann 05/26/09*
USB 2.0 Portable Secure 320GB Hard Disk	43R2019	*ann 11/18/08*
eSATA/USB 2.0 Secure 500GB Hard Drive	57Y4400	*ann 01/07/10*
Lenovo Slim USB Portable DVD Burner	0A33988	*ann 06/14/11*

ThinkPad Expansion

Lenovo® Essential Notebook Stand	45J9292	*ann 05/12/09*
USB 2.0 Port Replicator with Digital Video	0A33942	*ann 03/22/11*

Keyboard

TrackPoint Cap Collection	73P2698	*ann 12/16/03*
USB Numeric Keypad	33L3225	*ann 05/01/00*
Preferred Pro USB Keyboard	73P5220	*ann 06/21/05*
Enhanced Performance USB Keyboard	73P2620	*ann 03/23/04*
Lenovo Mini Wireless Keyboard N5901[52]	57Y6336	

[52] Wireless via 2.4GHz technology using a micro-size USB receiver.

ThinkPad USB Keyboard with TrackPoint	55Y9003	*ann 08/18/09*
Lenovo USB Fingerprint Keyboard	73P4730	*ann 02/22/05*
Lenovo USB Smartcard Keyboard	51J0155	*ann 03/24/09*

Mouse

Lenovo Optical Mouse (USB)	06P4069	*ann 05/21/03*
Lenovo Laser Mouse (USB)	41U3074	*ann 01/23/07*
ThinkPad USB Laser Mouse	57Y4635	*ann 12/15/09*
Lenovo ScrollPoint® Mouse (USB, Optical)	31P7405	*ann 08/27/02*
ThinkPad Travel Mouse (USB, Optical)	31P7410	*ann 06/04/02*
ThinkPad Bluetooth Laser Mouse	41U5008	*ann 01/22/08*
Lenovo Wireless Laser Mouse - Black[52]	45K1696	*ann 11/25/08*
Lenovo Wireless Laser Mouse - Red/Black[52]	51J0198	*ann 11/25/08*
Lenovo Optical Mouse A6010 (black)	57Y6255	
Lenovo Wireless Mouse N30B (black)	55Y9360	

Security

Kensington® MicroSaver® Cable Lock	73P2582	*ann 12/29/03*
Kensington Twin Head Cable Lock	45K1620	*ann 09/30/08*
Lenovo Security Cable Lock	57Y4303	*ann 08/24/10*
USB Gemplus GemPC Smart Card Reader	41N3040	*ann 02/21/06*

Multimedia

ThinkPad In-Ear Headphones with mic	57Y4488	*ann 01/07/10*
Lenovo Mini Speakers M220	55Y2033	*ann 01/07/10*

Modem

USB 2.0 Lenovo Modem	43R1814	*ann 02/26/08*

Power adapters

ThinkPad 65W AC Adapter[45]	40Y7696	*ann 01/05/06*

[45] Only compatible with the integrated graphics models.

ThinkPad 90W AC Adapter	40Y7659	*ann 09/20/05*
ThinkPad 65W AC Adapter with USB Hub	57Y4600	*ann 09/07/10*
90W Ultraslim AC/DC Combo Adapter	41R4493	*ann 09/22/09*

More info at **www.lenovo.com/support/poweradapters**

Charging tips for 90W Ultraslim AC/DC Combo Adapter 41R4493

•iPod and iPhone Charge Tip (L10a)	41R4481	*ann 12/18/07*
•Generic Micro USB charge tip (L18)	41R4490	*ann 01/06/09*

More information at **www.lenovopowertips.com**

Carrying Cases

Up to 13.3" widescreen models:

ThinkPad Ultraportable Case	41U5062	*ann 05/13/08*

Up to 15.6" widescreen models:

Lenovo Business Messenger Case	51J0475	*ann 08/18/09*
Lenovo Messenger Max	41U5253	*ann 05/01/07*
Lenovo Performance BackPack	41U5254	*ann 05/01/07*
ThinkPad Business Topload Case	43R2476	*ann 05/13/08*
ThinkPad Business Backpack	43R2482	*ann 05/13/08*
ThinkPad Deluxe Expander Case	43R2478	*ann 05/13/08*
ThinkPad Executive Leather Case	43R2480	*ann 05/13/08*
Wenger Backpack for Lenovo	57Y4271	*ann 01/07/10*
Wenger Slim Case for Lenovo	57Y4273	*ann 01/07/10*
Wenger Deluxe Slim Case for Lenovo	57Y4272	*ann 01/07/10*

More information at **www.lenovo.com/support/cases**

Monitors

ThinkVision® L1711p 17" Monitor	5047HB2	*ann 10/20/09*
ThinkVision L1900p 19" Monitor	4431HE1	*ann 11/11/08*
ThinkVision L1951p Wide 19" Monitor	2448HB6	*ann 10/20/09*
ThinkVision L2250p Wide 22" Monitor	2572HB6	*ann 10/20/09*
ThinkVision L2251p Wide 22" Monitor	2572HD6	*ann 10/20/09*
ThinkVision L2251x Wide 22" Monitor	2578HB6	*ann 10/20/09*
ThinkVision L2321x Wide 23" Monitor	4014HB6	*ann 06/10/10*
ThinkVision L2440p Wide 24" Monitor	4420HB2	*ann 09/17/08*

Monitor Accessories[46]

Lenovo USB-to-DVI Monitor Adapter	45K5296	*ann 05/12/09*
ThinkVision USB Soundbar	40Y7616	*ann 08/23/05*
ThinkVision Soundbar	45K1263	*ann 09/16/08*
Kensington MicroSaver Cable Lock	73P2582	*ann 12/29/03*
Kensington Twin Head Cable Lock	45K1620	*ann 09/30/08*
Lenovo Security Cable Lock	57Y4303	*ann 08/24/10*
Lenovo Easy Reach Monitor Stand	55Y9258	*ann 09/22/09*

[46] Compatible on selected Lenovo and ThinkVision monitors.

More information at **www.lenovo.com/support/monitoraccessories**

For more information on accessories:

www.lenovo.com/accessories
Purchase Lenovo accessories

www.lenovo.com/support/accessories
Product specifications on Lenovo Support

www.lenovo.com/accessoriesguide
Option Compatibility Matrix (OCM) and accessory brochures

www.lenovoquickpick.com
An Options Compatibility Configurator for Lenovo systems

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ThinkPad®

Lenovo® ThinkPad Edge 14"

Lenovo ThinkPad Edge 14"
(Glossy black model)

Lenovo ThinkPad Edge 14"

USB Port Replicator with Digital Video
45K1610

Lenovo ThinkPad Edge 14"

ThinkPad® Edge 14" 0579 (Intel) - TopSeller (Windows 7)

Type-model	Processor	GHz	Memory	Wide-screen display	Disk SATA GB[8] rpm	PCIe Mini Card 802.11	PCIe Mini Card WWAN	Carrier	Top color	Finger print reader	Blue-tooth	Preload	Avail date
0579-22U	i3-370M	2.40	2GB	14.0" HD	250G 5400	TP 11b/g/n	None	None	Matte black	None	None	Pro 64	May 11

- ***This small and medium business (SMB) model is part of the US TopSeller™ Program***
- ***This system is Microsoft® Office 2010 Product Key Ready (O10PKR)***

Positioning	*Sophisticated design with quality, durability and reliability for SMB customers; two spindles*
Processor	**Intel® Core™ i3 processor i3-370M** with **dual-core**, DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Hyper-Threading technology; 3MB cache
Memory	**2GB** std / 8GB max[7] / PC3-8500 1066MHz **DDR3**, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; *Non-italics:* standard memory in one socket; one socket available
SATA DVD±RW	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable, tray-in
SATA disk	**250GB**[8] (5400 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, Active Protection System™
Widescreen display	**14.0"** (355mm) **HD (1366x768) color**, anti-glare, **LED backlight**, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio
Camera	Camera on top of screen, 2.0-megapixel, fixed focus
Integrated graphics	**Intel HD Graphics** in processor, external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI™ (supporting HDCP to output protected content); supports dual independent display; *Max external resolution:* 2048x1536@75Hz; 1920x1080 (HDMI port)
Keyboard	6-row, spill-resistant, multimedia Fn keys
TrackPoint®	TrackPoint® pointing device, Internet Scroll Bar[13]
Touch pad	UltraNav™, wide touch pad below keyboard, Tap Zones, multi-touch
ThinkLight™	None
Dimensions[3]	*14.0W" (WxDxH):* 13.54" x 9.17" x 1.25-1.46"; 344 x 233mm x 31.8-37.0mm
Weight[2]	*4-cell:* from 4.72 lb (2.14kg); *6-cell:* from 4.9 lb (2.22kg); *9-cell:* from 5.29 lb (2.40kg)
Case color	Matte black (top), trimmed with a thin silver band (side); black bottom
Case material	Acrylonitrile-Butadiene-Styrene (ABS) plastic
Battery - type[37]	Lithium Ion **6-cell**
Battery - life[10]	*4-cell:* up to 2.9 hr; *6-cell:* up to 4.5 hr
Chipset	**Mobile Intel HM55 Express Chipset**
ExpressCard/34	One ExpressCard/34
Multicard Reader	7-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC, XD, XD Type H)
Ports	Three USB 2.0 (one powered), one USB 2.0/eSATA combo port, external monitor (VGA DB-15, HDMI), ethernet (RJ-45)
PCIe Mini Card	Two PCI Express Mini Card slots
11b/g/n	11b/g/n wireless[4], ThinkPad 11b/g/n, PCIe Half Mini Card
WWAN upg	None
Modem	None
Bluetooth™	None
Ethernet	Realtek® RTL8111DL Gigabit Network Connection
Intel AMT	None
Audio support	High Definition (HD) Audio, Realtek ALC269 codec / stereo speakers, 1.5 watt x 2/ mono digital microphone, combo audio/mic jack
Security	Power-on password, hard disk password, supervisor password, security keyhole
Security chip	None
Fingerprint reader	None
Limited warranty[12]	**1-year** - depot repair service / service upgrades[22] available

Preloaded operating system[20]
- Genuine Windows® 7 Professional 64

Preloaded applications[14] (only some listed)
- Rescue and Recovery™
- Access Connections™
- Password Manager
- ThinkVantage Power Manager
- ThinkVantage System Update
- ThinkVantage Toolbox
- Norton™ Internet Security 2011 (30 days of virus definitions)
- Adobe® Reader®
- Adobe Flash® Player
- Skype™ for Windows
- Microsoft Office 2010 preloaded; purchase product key to activate
- Microsoft Research AutoCollage Touch

Supports ThinkVantage® technologies

65-watt AC adapter
EPEAT™ Gold rating
ENERGY STAR® 5.0-compliant
RoHS-compliant
International Warranty Service[17]
24 hour x 7 day[18] toll-free support during the warranty period[12] via 800-426-7378

ThinkPlus™,[22] 1-year LOR[24] 9x5 NBD 45K5968
ThinkPlus 2-year LOR 9x5 NBD 45K5969
ThinkPlus 3-year LOR 9x5 NBD 45K5970
ThinkPlus 4-year LOR 9x5 NBD 45K5973
ThinkPlus 2-year P&L P/U Depot 45K5971
ThinkPlus 3-year P&L P/U Depot 45K5972
ThinkPlus 4-year P&L P/U Depot 45K5974
Post-warranty annual maintenance agreements at **lenovo.com**/thinkplus/warranty

See footnotes for important warranty information
US model announced May 10, 2011

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ThinkPad® Edge 14" 0199 (AMD) - TopSeller (Windows 7) - October 2010

Type-model	Processor	GHz	Memory	Wide-screen display	Screen type	Camera	Disk SATA GB[8] rpm	PCIe Mini Card 802.11	Top color	Finger print reader	Blue-tooth	Bat-tery cells	Preload	Avail date
✂ 0199-4GU	P340	2.20	2GB	14.0" HD		0.3M	320G 7200	11b/g/n	Matte black	None	None	6	Pro 64	Sep 10
✂ 0199-4HU	P340	2.20	2GB	14.0" HD		0.3M	320G 7200	11b/g/n	Glossy red	None	None	6	Pro 64	Sep 10
✂ 0199-4JU	P540	2.40	2GB	14.0" HD		0.3M	320G 7200	11b/g/n	Matte black	None	None	6	Pro 64	Sep 10
☞ 0199-6PU	P560	2.50	2GB	14.0" HD	Glossy	0.3M	320G 7200	11b/g/n	Matte black	None	None	6	Pro 64	Mar 11
☞ 0199-6QU	P360	2.30	2GB	14.0" HD	Glossy	0.3M	320G 7200	11b/g/n	Matte black	None	None	6	Pro 64	Mar 11

- ***These small and medium business (SMB) models are part of the US TopSeller™ Program***
- ***These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)***

Positioning	*Sophisticated design with quality, durability and reliability for SMB customers; two spindles*
Processor	**AMD® Athlon™ II Dual-Core Mobile Processor P340** or **P360** with **dual-core,** virtualization technology, integrated DDR3 memory controller, and 1MB L2 cache or **AMD Turion™ II Dual-Core Mobile Processor P540** or **P560** with **dual-core,** virtualization technology, integrated DDR3 memory controller, and 2MB L2 cache
Memory	**2GB** std / 8GB max[7] / PC3-8500 1066MHz **DDR3**, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; *Non-italics:* standard memory in one socket; one socket available
SATA DVD±RW	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable, tray-in
SATA disk	**320GB**[8] (7200 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, Active Protection System™
Widescreen display	*Some:* **14.0"** (355mm) **HD (1366x768) color**, anti-glare, **LED backlight**, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio *Some:* **14.0"** (355mm) **HD (1366x768) color**, **VibrantView** (glossy), **LED backlight**, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio
Camera	Camera on top of screen, 0.3-megapixel, fixed focus
Integrated graphics	**ATI™ Radeon™ HD 4250 graphics**, in RS880M, external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI™ (supporting HDCP to output protected content); supports dual independent display; *Max external resolution:* 2456x1536@60Hz
Keyboard	6-row, spill-resistant, multimedia Fn keys
TrackPoint®	TrackPoint® pointing device, Internet Scroll Bar[13]
Touch pad	UltraNav™, wide touch pad below keyboard, Tap Zones, multi-touch
ThinkLight™	None
Dimensions[3]	*14.0W" (WxDxH):* 13.54" x 9.17" x 1.25-1.46"; 344 x 233mm x 31.8-37.0mm
Weight[2]	*4-cell:* from 4.78 lb (2.17kg); *6-cell:* from 4.96 lb (2.25kg); *9-cell:* from 5.36 lb (2.43kg)
Case color	Matte black (top) or glossy red (top), trimmed with a thin silver band (side); black bottom
Case material	Acrylonitrile-Butadiene-Styrene (ABS) plastic
Battery - type[37]	Lithium Ion **6-cell**
Battery - life[10]	*4-cell:* up to 2.6 hr; *6-cell:* up to 4 hr; *9-cell:* up to 6 hr
Chipset	**AMD RS880M Chipset**, SB820M south bridge
ExpressCard/34	One ExpressCard/34
Multicard Reader	7-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC, XD, XD Type H)
Ports	Three USB 2.0 (one powered), one USB 2.0/eSATA combo port, external monitor (VGA DB-15, HDMI), ethernet (RJ-45)
PCIe Mini Card	One PCI Express Half Mini Card slot
11b/g/n	11b/g/n wireless[4], ThinkPad 11b/g/n, PCIe Half Mini Card
Modem	None
Bluetooth™	None
Ethernet	Realtek® RTL8111DL Gigabit Network Connection
Audio support	High Definition (HD) Audio, Realtek ALC269 codec / stereo speakers, 1.5 watt x 2/ mono digital microphone, combo audio/mic jack
Security	Power-on password, hard disk password, supervisor password, security keyhole
Security chip	None
Fingerprint reader	None
Limited warranty[12]	**1-year** - depot repair service / service upgrades[22] available

Preloaded operating system[20]
- Genuine Windows® 7 Professional 64

Preloaded applications[14] (only some listed)
- Rescue and Recovery™
- Access Connections™
- Password Manager
- ThinkVantage Power Manager
- ThinkVantage System Update
- ThinkVantage Toolbox
- Adobe® Reader®
- Adobe Flash® Player
- Skype™ for Windows
- Microsoft Office 2010 preloaded; purchase product key to activate
- Microsoft Research AutoCollage Touch

Supports ThinkVantage® technologies

65-watt AC adapter
EPEAT™ Gold rating
ENERGY STAR® 5.0-compliant
RoHS-compliant
International Warranty Service[17]
24 hour x 7 day[18] toll-free support during the warranty period[12] via 800-426-7378

ThinkPlus™,[22] 1-year LOR[24] 9x5 NBD 45K5968
ThinkPlus 2-year LOR 9x5 NBD 45K5969
ThinkPlus 3-year LOR 9x5 NBD 45K5970
ThinkPlus 4-year LOR 9x5 NBD 45K5973
ThinkPlus 2-year P&L P/U Depot 45K5971
ThinkPlus 3-year P&L P/U Depot 45K5972
ThinkPlus 4-year P&L P/U Depot 45K5974
Post-warranty annual maintenance agreements at **lenovo.com**/thinkplus/warranty

See footnotes for important warranty information

☞ US models announced March 1, 2011, previous models on September 28, 2010

✂ US models withdrawn effective April 2011

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ThinkPad® Edge 14" Accessories

Memory

1GB PC3-8500 DDR3 Low-Halogen SODIMM	55Y3706	*ann 06/23/09*
1GB PC3-8500 DDR3 L-H SODIMM (25-Pack)	57Y4385	*ann 06/23/09*
2GB PC3-8500 DDR3 Low-Halogen SODIMM	55Y3707	*ann 06/23/09*
2GB PC3-8500 DDR3 L-H SODIMM (25-Pack)	57Y4386	*ann 06/23/09*
1GB PC3-10600 DDR3 L-H SODIMM	55Y3709	*ann 03/02/10*
1GB PC3-10600 DDR3 L-H SODIMM (25Pack)	57Y4415	*ann 03/02/10*
2GB PC3-10600 DDR3 L-H SODIMM	55Y3710	*ann 03/02/10*
2GB PC3-10600 DDR3 L-H SODIMM (25Pack)	57Y4416	*ann 03/02/10*
4GB PC3-10600 DDR3 L-H SODIMM	55Y3711	*ann 03/02/10*

Storage and removable storage

USB 2.0 Portable 320GB Hard Disk	45K1689	*ann 03/17/09*
USB 2.0 Portable 500GB Hard Disk	45K1690	*ann 05/26/09*
USB 2.0 Portable Secure 320GB Hard Disk	43R2019	*ann 11/18/08*
eSATA/USB 2.0 Secure 500GB Hard Drive	57Y4400	*ann 01/07/10*
Lenovo Slim USB Portable DVD Burner	0A33988	*ann 06/14/11*

ThinkPad Expansion

Lenovo® Essential Notebook Stand	45J9292	*ann 05/12/09*
USB 2.0 Port Replicator with Digital Video	0A33942	*ann 03/22/11*

Keyboard

TrackPoint Cap Collection	73P2698	*ann 12/16/03*
USB Numeric Keypad	33L3225	*ann 05/01/00*
Preferred Pro USB Keyboard	73P5220	*ann 06/21/05*
Enhanced Performance USB Keyboard	73P2620	*ann 03/23/04*
Lenovo Mini Wireless Keyboard N5901[52] (blk)	57Y6336	
Ultraslim Wireless Keyboard and Mouse[52]	57Y4700	*ann 09/15/09*

[52] Wireless via 2.4GHz technology using a micro-size USB receiver.

ThinkPad USB Keyboard with TrackPoint	55Y9003	*ann 08/18/09*
Lenovo USB Fingerprint Keyboard	73P4730	*ann 02/22/05*
Lenovo USB Smartcard Keyboard	51J0155	*ann 03/24/09*

Mouse

Lenovo Optical Mouse (USB)	06P4069	*ann 05/21/03*
Lenovo Laser Mouse (USB)	41U3074	*ann 01/23/07*
ThinkPad USB Laser Mouse	57Y4635	*ann 12/15/09*
Lenovo ScrollPoint® Mouse (USB, Optical)	31P7405	*ann 08/27/02*
ThinkPad Travel Mouse (USB, Optical)	31P7410	*ann 06/04/02*
ThinkPad Bluetooth Laser Mouse	41U5008	*ann 01/22/08*
Lenovo Wireless Laser Mouse - Black[52]	45K1696	*ann 11/25/08*
Lenovo Wireless Laser Mouse - Red/Black[52]	51J0198	*ann 11/25/08*
Lenovo Optical Mouse A6010 (black)	57Y6255	
Lenovo Mini Optical Mouse M20B	55Y2091	
Lenovo Wireless Mouse N30B (black)	55Y9360	

Security

3M 14.0W Privacy Filter from Lenovo	0A61769	*ann 04/05/11*
Kensington® MicroSaver® Cable Lock	73P2582	*ann 12/29/03*
Kensington Twin Head Cable Lock	45K1620	*ann 09/30/08*
Lenovo Security Cable Lock	57Y4303	*ann 08/24/10*
USB Gemplus GemPC Smart Card Reader	41N3040	*ann 02/21/06*

Multimedia

ThinkPad In-Ear Headphones with mic	57Y4488	*ann 01/07/10*
Lenovo Mini Speakers M220	55Y2033	*ann 01/07/10*
Lenovo Headphone P550	55Y2065	

Modem

USB 2.0 Lenovo Modem	43R1814	*ann 02/26/08*

Batteries[37]

ThinkPad Battery 25 (4-cell)	51J0498	*ann 10/22/09*
ThinkPad Battery 25+ (6-cell)	51J0499	*ann 10/22/09*
ThinkPad Battery 25++ (9-cell)	51J0500	*ann 10/22/09*
ThinkPad External Battery Charger[44]	40Y7625	*ann 09/20/05*

[44] Requires the *ThinkPad 90W AC Adapter 40Y7659* or the adapter provided with the system.

More information at **www.lenovo.com/alldaycomputing**

ThinkPad 65W AC Adapter[45]	40Y7696	*ann 01/05/06*

[45] Only compatible with the integrated graphics models.

ThinkPad 90W AC Adapter	40Y7659	*ann 09/20/05*
ThinkPad 65W AC Adapter with USB Hub	57Y4600	*ann 09/07/10*
90W Ultraslim AC/DC Combo Adapter	41R4493	*ann 09/22/09*

More info at **www.lenovo.com/support/poweradapters**

Charging tips for 90W Ultraslim AC/DC Combo Adapter 41R4493

•iPod and iPhone Charge Tip (L10a)	41R4481	*ann 12/18/07*
•Generic Micro USB charge tip (L18)	41R4490	*ann 01/06/09*

More information at **www.lenovopowertips.com**

Carrying Cases

ThinkPad 14W Case Sleeve	57Y4294	*ann 03/16/10*
Lenovo Business Messenger Case	51J0475	*ann 08/18/09*
Lenovo Messenger Max	41U5253	*ann 05/01/07*
Lenovo Performance BackPack	41U5254	*ann 05/01/07*
ThinkPad Business Topload Case	43R2476	*ann 05/13/08*
ThinkPad Business Backpack	43R2482	*ann 05/13/08*
ThinkPad Deluxe Expander Case	43R2478	*ann 05/13/08*
ThinkPad Executive Leather Case	43R2480	*ann 05/13/08*

More information at **www.lenovo.com/support/cases**

Monitors

ThinkVision® L1711p 17" Monitor	5047HB2	*ann 10/20/09*
ThinkVision L1900p 19" Monitor	4431HE1	*ann 11/11/08*
ThinkVision L1951p Wide 19" Monitor	2448HB6	*ann 10/20/09*
ThinkVision L2250p Wide 22" Monitor	2572HB6	*ann 10/20/09*
ThinkVision L2251p Wide 22" Monitor	2572HD6	*ann 10/20/09*
ThinkVision L2251x Wide 22" Monitor	2578HB6	*ann 10/20/09*
ThinkVision L2321x Wide 23" Monitor	4014HB6	*ann 06/10/10*
ThinkVision L2440p Wide 24" Monitor	4420HB2	*ann 09/17/08*

More information at **www.lenovo.com/support/monitors**

Monitor Accessories[46]

Lenovo USB-to-DVI Monitor Adapter	45K5296	*ann 05/12/09*
ThinkVision USB Soundbar	40Y7616	*ann 08/23/05*
ThinkVision Soundbar	45K1263	*ann 09/16/08*
Kensington MicroSaver Cable Lock	73P2582	*ann 12/29/03*
Kensington Twin Head Cable Lock	45K1620	*ann 09/30/08*
Lenovo Security Cable Lock	57Y4303	*ann 08/24/10*
Lenovo Easy Reach Monitor Stand	55Y9258	*ann 09/22/09*

[46] Compatible on selected Lenovo and ThinkVision monitors.

More information at **www.lenovo.com/support/monitoraccessories**

For more information on accessories:

www.lenovo.com/accessories
Purchase Lenovo accessories

www.lenovo.com/support/accessories
Product specifications on Lenovo Support

www.lenovo.com/accessoriesguide
Option Compatibility Matrix (OCM) and accessory brochures

www.lenovoquickpick.com
An Options Compatibility Configurator for Lenovo systems

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ThinkPad®

Lenovo® ThinkPad Edge E420

Lenovo ThinkPad Edge E420

Lenovo ThinkPad Edge E420

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Lenovo ThinkPad Edge E420

Lenovo ThinkPad Edge E420

ThinkPad® Edge E420 1141 (Intel) - TopSeller

Type-model	Processor	Memory	Wide-screen display	Camera	Disk SATA GB[8] rpm	PCIe Mini Card WLAN	PCIe Mini Card WWAN /mSATA	Carrier	Top color	Finger print reader	Blue-tooth	Bat-tery cells	Preload
1141-55U	i3-2310M	4GBx1	14.0" HD	720p	320G 7200	TP 11b/g/n	None	None	Matte black			6	Pro 64
1141-56U	i3-2310M	4GBx1	14.0" HD	720p	320G 7200	TP 11b/g/n	None	None	Matte black			6	Prem 64
1141-57U	i3-2310M	4GBx1	14.0" HD	720p	500G 7200	Intel 1000	None	None	Matte black	Finger	Blue	6	Pro 64
1141-58U	i3-2310M	4GBx1	14.0" HD	720p	500G 7200	Intel 1000	None	None	Matte black	Finger	Blue	6	Prem 64
☞ 1141-9BU	i5-2520M	2GBx2	14.0" HD	720p	500G 7200	Intel 1000	None	None	Matte black	Finger	Blue	6	Pro 64

- ***These small and medium business (SMB) models are part of the US TopSeller™ Program***
- ***These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)***

Positioning	*Sophisticated design with quality, durability and reliability for SMB customers; two spindles*
Processor	**Intel® Core™ i3-2310M processor (dual-core, 2.10GHz, 3MB Cache)**, DDR3 memory controller (up to 1333MHz), HT technology **Intel Core i5-2520M processor (dual-core, 2.50GHz, 3MB Cache)**, DDR3 memory controller (up to 1333MHz), Intel Turbo Boost 2.0 (3.20GHz), HT technology
Memory	8GB max[7] / PC3-10600 1333MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets
Optical	DVD burner, 12.7mm high, fixed, not removable, tray-in
SATA disk	Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™
mSATA™ SSD	None
Widescreen display	**14.0"** (355mm) **HD (1366x768) color**, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio
Camera	HD720p resolution, wide view angle, low light sensitive, fixed focus
Graphics	**Intel HD Graphics 3000** in processor, external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI™ (supporting HDCP to output protected content); supports dual independent display; *Max external resolution:* 2048x1536 (VGA)@75Hz; 1920x1200 (HDMI)@60Hz
Keyboard	6-row, spill-resistant, multimedia Fn keys
TrackPoint®	TrackPoint® pointing device, Internet Scroll Bar[13]
Touchpad	UltraNav™, wide touchpad below keyboard, Tap Zones, multi-touch
ThinkLight™	None
Dimensions[3]	*14.0W" (WxDxH):* 13.52" x 9.20" x 1.13-1.43"; 343.4 x 233.6mm x 28.7-36.4mm
Weight[2]	*4-cell:* from 4.6 lb (2.1kg); *6-cell:* from 4.85 lb (2.2kg); *9-cell:* from 5.2 lb (2.36kg)
Case color	Matte black or Matte red (top), trimmed with a thin silver band (side); black bottom
Case material	Acrylonitrile-Butadiene-Styrene (ABS) plastic
Battery - type[37]	Lithium Ion 4-cell, 6-cell, or 9-cell
Battery - life[10]	*4-cell:* up to 4.1 hr; *6-cell:* up to 6.2 hr; *9-cell:* up to 11.7 hr
Chipset	**Mobile Intel HM65 Express Chipset**
ExpressCard	One ExpressCard/34
Multicard Reader	4-in-1 reader (MMC, SD, SDHC, SDXC)
Ports	Three USB 2.0 (one powered), one USB 2.0/eSATA combo port, external monitor (VGA DB-15, HDMI), ethernet (RJ-45)
PCIe Mini Card WLAN[4]	Two PCI Express Half Mini Card slots *Some:* ThinkPad 11b/g/n, PCIe Half Mini Card, Realtek® chipset, 1x1 *Some:* 11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 1000, 1x2
WWAN	None
Modem	None
Bluetooth™	*Some:* Bluetooth 3.0 wireless
Ethernet	Realtek® RTL8111E Gigabit Network Connection
Audio support	High Definition (HD) Audio, Conexant 20671 codec / stereo speakers, 1 watt x 2/ mono digital microphone, combo audio/mic jack
Security	Power-on password, hard disk password, supervisor password, security keyhole
Security chip	None
Fingerprint reader	*Some:* UPEK Fingerprint reader on palm rest, swipe sensor
Limited warranty[12]	**1-year** - depot repair service / service upgrades[22] available

Preloaded operating system[20]
- *Some:* Genuine Windows® 7 Home Premium 64
- *Some:* Genuine Windows 7 Professional 64

Ready to install applications[14] (all OSes; only some listed)
- Rescue and Recovery™
- Access Connections™
- Fingerprint Software (fingerprint models)
- Password Manager (fingerprint models)
- ThinkVantage System Update
- ThinkVantage Power Manager
- ThinkVantage Toolbox

Preloaded applications[14] (all OSes; only some listed)
- Norton™ Internet Security 2011 (30 days of virus definitions)
- Adobe® Reader®
- Skype™ for Windows
- Microsoft Office 2010 preloaded; purchase product key to activate
- Adobe Acrobat® X Standard (bundled with Microsoft Office)
- Corel® WinDVD® (DVD±RW)
- Corel Burn.Now™ Lenovo Edition (DVD±RW)
- Corel DVD MovieFactory® Lenovo Edition (DVD±RW)

Supports ThinkVantage® technologies

65-watt AC adapter
EPEAT™ Gold rating
ENERGY STAR® 5.0-compliant
RoHS-compliant
International Warranty Service[17]
24 hour x 7 day[18] toll-free support during the warranty period[12] via 800-426-7378

For compatible accessories, please go to O-E420 sheet;

For ThinkPlus™,[22] service upgrade options, please go to S-EDGE sheet

See footnotes for more detailed information

☞ US model announced June 21, 2011; previous models on April 19, 2011

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ThinkPad® Edge E420 Accessories

Memory

1GB PC3-10600 DDR3 L-H SODIMM	55Y3709	*ann 03/02/10*
1GB PC3-10600 DDR3 L-H SODIMM (25Pack)	57Y4415	*ann 03/02/10*
2GB PC3-10600 DDR3 L-H SODIMM	55Y3710	*ann 03/02/10*
2GB PC3-10600 DDR3 L-H SODIMM (25Pack)	57Y4416	*ann 03/02/10*
4GB PC3-10600 DDR3 L-H SODIMM	55Y3711	*ann 03/02/10*

Storage and removable storage

USB 2.0 Portable 320GB Hard Disk	45K1689	*ann 03/17/09*
USB 2.0 Portable 500GB Hard Disk	45K1690	*ann 05/26/09*
USB 2.0 Portable Secure 320GB Hard Disk	43R2019	*ann 11/18/08*
eSATA/USB 2.0 Secure 500GB Hard Drive	57Y4400	*ann 01/07/10*
Lenovo Slim USB Portable DVD Burner	0A33988	*ann 06/14/11*

ThinkPad Expansion

Lenovo® Essential Notebook Stand	45J9292	*ann 05/12/09*
USB 2.0 Port Replicator with Digital Video	0A33942	*ann 03/22/11*

Keyboard

TrackPoint Cap Collection	73P2698	*ann 12/16/03*
USB Numeric Keypad	33L3225	*ann 05/01/00*
Preferred Pro USB Keyboard	73P5220	*ann 06/21/05*
Enhanced Performance USB Keyboard	73P2620	*ann 03/23/04*
Lenovo Mini Wireless Keyboard N5901[52] (blk)	57Y6336	

[52] Wireless via 2.4GHz technology using a micro-size USB receiver.

ThinkPad USB Keyboard with TrackPoint	55Y9003	*ann 08/18/09*
Lenovo USB Fingerprint Keyboard	73P4730	*ann 02/22/05*
Lenovo USB Smartcard Keyboard	51J0155	*ann 03/24/09*

Mouse

Lenovo Optical Mouse (USB)	06P4069	*ann 05/21/03*
Lenovo Laser Mouse (USB)	41U3074	*ann 01/23/07*
ThinkPad USB Laser Mouse	57Y4635	*ann 12/15/09*
Lenovo ScrollPoint® Mouse (USB, Optical)	31P7405	*ann 08/27/02*
ThinkPad Travel Mouse (USB, Optical)	31P7410	*ann 06/04/02*
ThinkPad Bluetooth Laser Mouse	41U5008	*ann 01/22/08*
Lenovo Wireless Laser Mouse - Black[52]	45K1696	*ann 11/25/08*
Lenovo Wireless Laser Mouse - Red/Black[52]	51J0198	*ann 11/25/08*
Lenovo Optical Mouse A6010 (black)	57Y6255	
Lenovo Wireless Mouse N30B (black)	55Y9360	

Security

3M 14.0W Privacy Filter from Lenovo	0A61769	*ann 04/05/11*
Kensington® MicroSaver® Cable Lock	73P2582	*ann 12/29/03*
Kensington Twin Head Cable Lock	45K1620	*ann 09/30/08*
Lenovo Security Cable Lock	57Y4303	*ann 08/24/10*
USB Gemplus GemPC Smart Card Reader	41N3040	*ann 02/21/06*

Multimedia

ThinkPad In-Ear Headphones with mic	57Y4488	*ann 01/07/10*
Lenovo Mini Speakers M220	55Y2033	*ann 01/07/10*

Modem

USB 2.0 Lenovo Modem	43R1814	*ann 02/26/08*

Batteries[37]

ThinkPad Battery 25 (4-cell)	51J0498	*ann 10/22/09*
ThinkPad Battery 25+ (6-cell)	51J0499	*ann 10/22/09*
ThinkPad Battery 25++ (9-cell)	51J0500	*ann 10/22/09*
ThinkPad External Battery Charger[44]	40Y7625	*ann 09/20/05*

[44] Requires the *ThinkPad 90W AC Adapter 40Y7659* or the adapter provided with the system.

More information at **www.lenovo.com/alldaycomputing**

ThinkPad 65W AC Adapter[45]	40Y7696	*ann 01/05/06*

[45] Only compatible with the integrated graphics models.

ThinkPad 90W AC Adapter	40Y7659	*ann 09/20/05*
ThinkPad 65W AC Adapter with USB Hub	57Y4600	*ann 09/07/10*
90W Ultraslim AC/DC Combo Adapter	41R4493	*ann 09/22/09*

More info at **www.lenovo.com/support/poweradapters**

Charging tips for 90W Ultraslim AC/DC Combo Adapter 41R4493

•iPod and iPhone Charge Tip (L10a)	41R4481	*ann 12/18/07*
•Generic Micro USB charge tip (L18)	41R4490	*ann 01/06/09*

More information at **www.lenovopowertips.com**

Carrying Cases

Up to 15.6" widescreen models:

Lenovo Business Messenger Case	51J0475	*ann 08/18/09*
Lenovo Messenger Max	41U5253	*ann 05/01/07*
Lenovo Performance BackPack	41U5254	*ann 05/01/07*
ThinkPad Business Topload Case	43R2476	*ann 05/13/08*
ThinkPad Business Backpack	43R2482	*ann 05/13/08*
ThinkPad Deluxe Expander Case	43R2478	*ann 05/13/08*
ThinkPad Executive Leather Case	43R2480	*ann 05/13/08*
Wenger Backpack for Lenovo	57Y4271	*ann 01/07/10*
Wenger Slim Case for Lenovo	57Y4273	*ann 01/07/10*
Wenger Deluxe Slim Case for Lenovo	57Y4272	*ann 01/07/10*

More information at **www.lenovo.com/support/cases**

Monitors

ThinkVision® L1711p 17" Monitor	5047HB2	*ann 10/20/09*
ThinkVision L1900p 19" Monitor	4431HE1	*ann 11/11/08*
ThinkVision L1951p Wide 19" Monitor	2448HB6	*ann 10/20/09*
ThinkVision L2250p Wide 22" Monitor	2572HB6	*ann 10/20/09*
ThinkVision L2251p Wide 22" Monitor	2572HD6	*ann 10/20/09*
ThinkVision L2251x Wide 22" Monitor	2578HB6	*ann 10/20/09*
ThinkVision L2321x Wide 23" Monitor	4014HB6	*ann 06/10/10*
ThinkVision L2440p Wide 24" Monitor	4420HB2	*ann 09/17/08*

Monitor Accessories[46]

Lenovo USB-to-DVI Monitor Adapter	45K5296	*ann 05/12/09*
ThinkVision USB Soundbar	40Y7616	*ann 08/23/05*
ThinkVision Soundbar	45K1263	*ann 09/16/08*
Kensington MicroSaver Cable Lock	73P2582	*ann 12/29/03*
Kensington Twin Head Cable Lock	45K1620	*ann 09/30/08*
Lenovo Security Cable Lock	57Y4303	*ann 08/24/10*
Lenovo Easy Reach Monitor Stand	55Y9258	*ann 09/22/09*

[46] Compatible on selected Lenovo and ThinkVision monitors.

More information at **www.lenovo.com/support/monitoraccessories**

For more information on accessories:

www.lenovo.com/accessories
Purchase Lenovo accessories

www.lenovo.com/support/accessories
Product specifications on Lenovo Support

www.lenovo.com/accessoriesguide
Option Compatibility Matrix (OCM) and accessory brochures

www.lenovoquickpick.com
An Options Compatibility Configurator for Lenovo systems

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Lenovo® ThinkPad Edge E420s

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ThinkPad® Edge E420s 4401 (TopSeller)

Type-model	Processor	Memory	Wide-screen display	Camera	Disk SATA GB[8] rpm	PCIe Mini Card WLAN	PCIe Mini Card WWAN /mSATA	Carrier	Finger print reader	Blue-tooth	Bat-tery cells	Preload
4401-27U	i5-2410M	4GBx1	14.0" HD	720p	320G 7200	Intel 1000	None	None	Finger	Blue	4	Prem 64
4401-28U	i5-2410M	4GBx1	14.0" HD	720p	320G 7200	Intel 1000	None	None	Finger	Blue	4	Pro 64
4401-29U	i3-2310M	4GBx1	14.0" HD	720p	320G 7200	TP 11b/g/n	None	None	Finger		4	Pro 64

- ***These small and medium business (SMB) models are part of the US TopSeller™ Program***
- ***These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)***

Positioning	*Elegant design with quality, reliability, and portability for SMB customers; two spindles*
Processor	**Intel® Core™ i3-2310M processor (dual-core, 2.10GHz, 3MB Cache)**, DDR3 memory controller (up to 1333MHz), HT technology **Intel Core i5-2410M processor (dual-core, 2.30GHz, 3MB Cache)**, DDR3 memory controller (up to 1333MHz), Intel Turbo Boost 2.0 (2.90GHz), HT technology
Memory	8GB max[7] / PC3-10600 1333MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets
Optical	DVD burner, 9.5mm high, fixed, not removable, slot-in
SATA disk	*Some:* Solid State Drive (SSD) / SATA 3.0Gb/s, 2.5" wide, 7mm high *Some:* Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm high, Active Protection System™ *All:* removable, upgradable, Shock Mounted Hard Drive
mSATA	None
Widescreen display	**14.0"** (355mm) **HD (1366x768) color**, anti-glare display with glossy infinity glass, LED backlight, 200 nits, 16:9 aspect ratio, 300:1 contrast ratio
Camera	HD720p resolution, wide view angle, low light sensitive, fixed focus
Graphics	**Intel HD Graphics 3000** in processor, external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI™ (supporting HDCP to output protected content); supports dual independent display; *Max external resolution:* 2048x1536 (VGA)@75Hz; 1920x1200 (HDMI)@60Hz
Keyboard	6-row, spill-resistant, multimedia Fn keys
TrackPoint®	TrackPoint® pointing device, Internet Scroll Bar[13]
Touch pad	UltraNav™, buttonless touchpad below keyboard, Tap Zones, scrolling regions, multi-touch
ThinkLight™	Illuminates the keyboard to improve visibility in low-light conditions
Dimensions[3]	*14.0W" (WxDxH):* 13.74" x 9.29" x 0.91-1.23"; 349mm x 236mm x 23.1-31.2mm
Weight[2]	starting at 4.14 lb (1.88kg)
Case color	Moss Black soft touch finish, authentic metal accents
Case material	Magnesium/Aluminum + PPS
Battery - type[37]	Integrated Lithium Ion 4-cell, 1000 cycle battery
Battery - life[10]	up to 7.0 hr
Chipset	**Mobile Intel HM65 Express Chipset**
ExpressCard/34	None
Multicard Reader	4-in-1 reader (MMC, SD, SDHC, SDXC)
Ports	Two USB 2.0 (one powered), one USB 2.0/eSATA combo port, external monitor (VGA DB-15, HDMI), ethernet (RJ-45)
PCIe Mini Card	Two PCI Express Mini Card slots
WLAN[4]	*Some:* ThinkPad 11b/g/n, PCIe Half Mini Card, Realtek® chipset, 1x1 *Some:* 11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 1000, 1x2
WWAN	None
Modem	None
Bluetooth™	*Some:* Bluetooth 3.0 wireless
Ethernet	Realtek® RTL8111E Gigabit Network Connection
Intel AMT	None
Audio support	High Definition (HD) Audio, Conexant 20671 codec / stereo speakers, 1 watt x 2/ mono digital microphone, combo audio/mic jack
Security	Power-on password, hard disk password, supervisor password, security keyhole
Security chip	None
Fingerprint reader	UPEK Fingerprint reader on palm rest, swipe sensor
Limited warranty[12]	**1-year** - depot repair service / service upgrades[22] available

Preloaded operating system[20]
- *Some:* Genuine Windows® 7 Home Premium 64
- *Some:* Genuine Windows 7 Professional 64

Ready to install applications[14] (all OSes; only some listed)
- Rescue and Recovery™
- Access Connections™
- Fingerprint Software (fingerprint models)
- Password Manager (fingerprint models)
- ThinkVantage System Update
- ThinkVantage Power Manager
- ThinkVantage Toolbox

Preloaded applications[14] (all OSes; only some listed)
- Norton™ Internet Security 2011 (30 days of virus definitions)
- Adobe® Reader®
- Skype™ for Windows
- Windows Live™ Essentials
- Microsoft Office 2010 preloaded; purchase product key to activate
- Adobe Acrobat® X Standard (bundled with Microsoft Office)
- Corel® WinDVD® (DVD±RW)
- Corel Burn.Now™ Lenovo Edition (DVD±RW)
- Corel DVD MovieFactory® Lenovo Edition (DVD±RW)

Supports ThinkVantage® technologies

65-watt AC adapter
EPEAT™ Gold rating
ENERGY STAR® 5.0-compliant
RoHS-compliant
International Warranty Service[17]
24 hour x 7 day[18] toll-free support during the warranty period[12] via 800-426-7378

For compatible accessories, please go to O-E420-S sheet;

For ThinkPlus™,[22] service upgrade options, please go to S-EDGE sheet

See footnotes for more detailed information
US models announced March 22, 2011

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ThinkPad® Edge E420s Accessories

Memory

1GB PC3-10600 DDR3 L-H SODIMM	55Y3709	*ann 03/02/10*
1GB PC3-10600 DDR3 L-H SODIMM (25Pack)	57Y4415	*ann 03/02/10*
2GB PC3-10600 DDR3 L-H SODIMM	55Y3710	*ann 03/02/10*
2GB PC3-10600 DDR3 L-H SODIMM (25Pack)	57Y4416	*ann 03/02/10*
4GB PC3-10600 DDR3 L-H SODIMM	55Y3711	*ann 03/02/10*

Storage and removable storage

USB 2.0 Portable 320GB Hard Disk	45K1689	*ann 03/17/09*
USB 2.0 Portable 500GB Hard Disk	45K1690	*ann 05/26/09*
USB 2.0 Portable Secure 320GB Hard Disk	43R2019	*ann 11/18/08*
eSATA/USB 2.0 Secure 500GB Hard Drive	57Y4400	*ann 01/07/10*
Lenovo Slim USB Portable DVD Burner	0A33988	*ann 06/14/11*

ThinkPad Expansion

Lenovo® Essential Notebook Stand	45J9292	*ann 05/12/09*
USB 2.0 Port Replicator with Digital Video	0A33942	*ann 03/22/11*

Keyboard

TrackPoint Cap Collection	73P2698	*ann 12/16/03*
USB Numeric Keypad	33L3225	*ann 05/01/00*
Preferred Pro USB Keyboard	73P5220	*ann 06/21/05*
Enhanced Performance USB Keyboard	73P2620	*ann 03/23/04*
ThinkPad USB Keyboard with TrackPoint	55Y9003	*ann 08/18/09*
Lenovo USB Fingerprint Keyboard	73P4730	*ann 02/22/05*
Lenovo USB Smartcard Keyboard	51J0155	*ann 03/24/09*
Lenovo Mini Wireless Keyboard N5901[52]	57Y6336	

[52] Wireless via 2.4GHz technology using a micro-size USB receiver.

Mouse

Lenovo Optical Mouse (USB)	06P4069	*ann 05/21/03*
Lenovo Laser Mouse (USB)	41U3074	*ann 01/23/07*
ThinkPad USB Laser Mouse	57Y4635	*ann 12/15/09*
Lenovo ScrollPoint® Mouse (USB, Optical)	31P7405	*ann 08/27/02*
ThinkPad Travel Mouse (USB, Optical)	31P7410	*ann 06/04/02*
ThinkPad Bluetooth Laser Mouse	41U5008	*ann 01/22/08*
Lenovo Wireless Laser Mouse - Black[52]	45K1696	*ann 11/25/08*
Lenovo Wireless Laser Mouse - Red/Black[52]	51J0198	*ann 11/25/08*
Lenovo Optical Mouse A6010 (black)	57Y6255	
Lenovo Mini Optical Mouse M20B	55Y2091	
Lenovo Wireless Mouse N30B (black)	55Y9360	

Security

Kensington® MicroSaver® Cable Lock	73P2582	*ann 12/29/03*
Kensington Twin Head Cable Lock	45K1620	*ann 09/30/08*
Lenovo Security Cable Lock	57Y4303	*ann 08/24/10*
USB Gemplus GemPC Smart Card Reader	41N3040	*ann 02/21/06*

Multimedia

ThinkPad In-Ear Headphones with mic	57Y4488	*ann 01/07/10*
Lenovo Mini Speakers M220	55Y2033	*ann 01/07/10*

Modem

USB 2.0 Lenovo Modem	43R1814	*ann 02/26/08*

Power adapters

ThinkPad 90W AC Adapter	40Y7659	*ann 09/20/05*
90W Ultraslim AC/DC Combo Adapter	41R4493	*ann 09/22/09*

More info at **www.lenovo.com/support/poweradapters**

Charging tips for 90W Ultraslim AC/DC Combo Adapter 41R4493

•iPod and iPhone Charge Tip (L10a)	41R4481	*ann 12/18/07*
•Generic Micro USB charge tip (L18)	41R4490	*ann 01/06/09*

More information at **www.lenovopowertips.com**

Carrying Cases

ThinkPad 14W Case Sleeve	57Y4294	*ann 03/16/10*
Lenovo Business Messenger Case	51J0475	*ann 08/18/09*
Lenovo Messenger Max	41U5253	*ann 05/01/07*
Lenovo Performance BackPack	41U5254	*ann 05/01/07*
ThinkPad Business Topload Case	43R2476	*ann 05/13/08*
ThinkPad Business Backpack	43R2482	*ann 05/13/08*
ThinkPad Deluxe Expander Case	43R2478	*ann 05/13/08*
ThinkPad Executive Leather Case	43R2480	*ann 05/13/08*
Wenger Backpack for Lenovo	57Y4271	*ann 01/07/10*
Wenger Slim Case for Lenovo	57Y4273	*ann 01/07/10*
Wenger Deluxe Slim Case for Lenovo	57Y4272	*ann 01/07/10*

More information at **www.lenovo.com/support/cases**

Monitors

ThinkVision® L1711p 17" Monitor	5047HB2	*ann 10/20/09*
ThinkVision L1900p 19" Monitor	4431HE1	*ann 11/11/08*
ThinkVision L1951p Wide 19" Monitor	2448HB6	*ann 10/20/09*
ThinkVision L2250p Wide 22" Monitor	2572HB6	*ann 10/20/09*
ThinkVision L2251p Wide 22" Monitor	2572HD6	*ann 10/20/09*
ThinkVision L2251x Wide 22" Monitor	2578HB6	*ann 10/20/09*
ThinkVision L2321x Wide 23" Monitor	4014HB6	*ann 06/10/10*
ThinkVision L2440p Wide 24" Monitor	4420HB2	*ann 09/17/08*

More information at **www.lenovo.com/support/monitors**

Monitor Accessories[46]

Lenovo USB-to-DVI Monitor Adapter	45K5296	*ann 05/12/09*
ThinkVision USB Soundbar	40Y7616	*ann 08/23/05*
ThinkVision Soundbar	45K1263	*ann 09/16/08*
Kensington MicroSaver Cable Lock	73P2582	*ann 12/29/03*
Kensington Twin Head Cable Lock	45K1620	*ann 09/30/08*
Lenovo Security Cable Lock	57Y4303	*ann 08/24/10*
Lenovo Easy Reach Monitor Stand	55Y9258	*ann 09/22/09*

[46] Compatible on selected Lenovo and ThinkVision monitors.

More information at **www.lenovo.com/support/monitoraccessories**

For more information on accessories:

www.lenovo.com/accessories
Purchase Lenovo accessories

www.lenovo.com/support/accessories
Product specifications on Lenovo Support

www.lenovo.com/accessoriesguide
Option Compatibility Matrix (OCM) and accessory brochures

www.lenovoquickpick.com
An Options Compatibility Configurator for Lenovo systems

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ThinkPad®

Lenovo® ThinkPad Edge 15"

Lenovo ThinkPad Edge 15"
(Glossy black model)

Lenovo ThinkPad Edge 15"

Lenovo ThinkPad Edge 15"
(Glossy red model)

Lenovo ThinkPad Edge 15"

ThinkPad® Edge 15" 0319 (Intel) - TopSeller (Windows 7)

Type-model	Processor	GHz	Memory	Wide-screen display	Disk SATA GB[8] rpm	PCIe Mini Card 802.11	PCIe Mini Card WWAN	Carrier	Top color	Finger print reader	Blue-tooth	Bat-tery cells	Preload	Avail date
0319-26U	i3-370M	2.40	*4GB*	15.6" HD	500G 5400	TP 11b/g/n	None	None	Matte black	None	None	6	Pro 64	May 11
0319-25U	i3-370M	2.40	2GB	15.6" HD	250G 5400	TP 11b/g/n	None	None	Matte black	None	None	6	Pro 64	May 11
0319-24U	i3-370M	2.40	2GB	15.6" HD Glossy	250G 5400	TP 11b/g/n	None	None	Matte black	None	None	6	Prem 64	May 11
0319-23U	P6100	2.00	*4GB*	15.6" HD Glossy	500G 5400	TP 11b/g/n	None	None	Matte black	None	None	6	Prem 64	May 11
0319-22U	P6100	2.00	2GB	15.6" HD Glossy	250G 5400	TP 11b/g/n	None	None	Matte black	None	None	6	Prem 64	May 11

- ***These small and medium business (SMB) models are part of the US TopSeller™ Program***
- ***These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)***

Positioning	*Sophisticated design with quality, durability and reliability for SMB customers; two spindles*
Processor	**Intel® Pentium® processor P6100** with **dual-core**, DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), 3MB cache or **Intel Core™ i3 processor i3-370M** with **dual-core**, DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Hyper-Threading technology; 3MB cache
Memory	**2GB** or **4GB** std / 8GB max[7] / PC3-8500 1066MHz **DDR3**, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; *Italics:* standard memory in both sockets; no sockets available; *Non-italics:* standard memory in one socket; one socket available
SATA DVD±RW	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable, tray-in
SATA disk	**250GB**[8] (5400 rpm) or **500GB** (5400 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, Active Protection System™
Widescreen display	*Some:* **15.6"** (395mm) **HD (1366x768) color**, anti-glare, **LED backlight**, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio *Some:* **15.6"** (395mm) **HD (1366x768) color**, **VibrantView** (glossy), **LED backlight**, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio
Camera	Camera on top of screen, 2.0-megapixel, fixed focus
Integrated graphics	**Intel HD Graphics** in processor, external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI™ (supporting HDCP to output protected content); supports dual independent display; *Max external resolution:* 2048x1536@75Hz; 1920x1080 (HDMI port)
Keyboard	6-row, spill-resistant, multimedia Fn keys
TrackPoint®	TrackPoint® pointing device, Internet Scroll Bar[13]
Touch pad	UltraNav™, wide touch pad below keyboard, Tap Zones, multi-touch
ThinkLight™	None
Dimensions[3]	*15.6W" (WxDxH):* 14.96" x 9.72" x 1.27-1.48"; 380 x 247mm x 32.3-37.5mm
Weight[2]	*4-cell:* from 5.32 lb (2.42kg); *6-cell:* from 5.50 lb (2.50kg); *9-cell:* from 5.89 lb (2.67kg)
Case color	Matte black (top), trimmed with a thin silver band (side); black bottom
Case material	Acrylonitrile-Butadiene-Styrene (ABS) plastic
Battery - type[37]	Lithium Ion **6-cell**
Battery - life[10]	*4-cell:* up to 2.9 hr; *6-cell:* up to 4.5 hr
Chipset	**Mobile Intel HM55 Express Chipset**
ExpressCard/34	One ExpressCard/34
Multicard Reader	7-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC, XD, XD Type H)
Ports	Three USB 2.0 (one powered), one USB 2.0/eSATA combo port, external monitor (VGA DB-15, HDMI), ethernet (RJ-45)
PCIe Mini Card	Two PCI Express Mini Card slots
11b/g/n	11b/g/n wireless[4], ThinkPad 11b/g/n, PCIe Half Mini Card
WWAN upg	None
Modem	None
Bluetooth™	None
Ethernet	Realtek® RTL8111DL Gigabit Network Connection
Intel AMT	None
Audio support	High Definition (HD) Audio, Realtek ALC269 codec / stereo speakers, 1.5 watt x 2/ mono digital microphone, combo audio/mic jack
Security	Power-on password, hard disk password, supervisor password, security keyhole
Security chip	None
Fingerprint reader	None
Limited warranty[12]	**1-year** - depot repair service / service upgrades[22] available

Preloaded operating system[20]
- *Some:* Genuine Windows® 7 Home Premium 64
- *Some:* Genuine Windows 7 Professional 64

Preloaded applications[14] (only some listed)
- Rescue and Recovery™
- Access Connections™
- Password Manager
- ThinkVantage Power Manager
- ThinkVantage System Update
- ThinkVantage Toolbox
- Norton™ Internet Security 2011 (30 days of virus definitions)
- Adobe® Reader®
- Adobe Flash® Player
- Skype™ for Windows
- Microsoft Office 2010 preloaded; purchase product key to activate
- Microsoft Research AutoCollage Touch

Supports ThinkVantage® technologies

65-watt AC adapter
EPEAT™ Gold rating
ENERGY STAR® 5.0-compliant
RoHS-compliant
International Warranty Service[17]
24 hour x 7 day[18] toll-free support during the warranty period[12] via 800-426-7378

ThinkPlus™,[22] 1-year LOR[24] 9x5 NBD 45K5968
ThinkPlus 2-year LOR 9x5 NBD 45K5969
ThinkPlus 3-year LOR 9x5 NBD 45K5970
ThinkPlus 4-year LOR 9x5 NBD 45K5973
ThinkPlus 2-year P&L P/U Depot 45K5971
ThinkPlus 3-year P&L P/U Depot 45K5972
ThinkPlus 4-year P&L P/U Depot 45K5974
Post-warranty annual maintenance agreements at **lenovo.com**/thinkplus/warranty

See footnotes for important warranty information
US models announced May 10, 2011

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ThinkPad® Edge 15" 0302 (AMD) - TopSeller (Windows 7) - October 2010

	Type-model	Proc-essor	GHz	Memory	Wide-screen display	Screen type	Camera	Disk SATA GB[8] rpm	PCIe Mini Card 802.11	Top color	Finger print reader	Blue-tooth	Bat-tery cells	Preload	Avail date
✂	0302-44U	P340	2.20	2GB	15.6" HD		2.0M	320G 7200	11b/g/n	Matte black	None	None	6	Pro 64	Sep 10
✂	0302-45U	P540	2.40	2GB	15.6" HD		2.0M	320G 7200	11b/g/n	Matte black	None	None	6	Pro 64	Sep 10
✂	0302-4LU	P840	1.90	4GB	15.6" HD	Glossy	0.3M	500G 5400	11b/g/n	Glossy black	None	None	6	Home P	Jan 11
☞	0302-54U	P560	2.50	2GB	15.6" HD		2.0M	320G 7200	11b/g/n	Matte black	None	None	6	Pro 64	Mar 11
☞	0302-55U	P360	2.30	2GB	15.6" HD		2.0M	320G 7200	11b/g/n	Matte black	None	None	6	Pro 64	Mar 11

- ***These small and medium business (SMB) models are part of the US TopSeller™ Program***
- ***These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)***

Positioning	*Sophisticated design with quality, durability and reliability for SMB customers; two spindles*
Processor	**AMD® Athlon™ II Dual-Core Mobile Processor P340** or **P360** with **dual-core,** virtualization technology, integrated DDR3 memory controller, and 1MB L2 cache or **AMD Turion™ II Dual-Core Mobile Processor P540** or **P560** with **dual-core,** virtualization technology, integrated DDR3 memory controller, and 2MB L2 cache or **AMD Phenom™ II Triple-Core Mobile Processor P840** with **triple-core,** virtualization technology, integrated DDR3 memory controller, and 1.5MB L2 cache
Memory	**2GB** or **4GB** std / 8GB max[7] / PC3-8500 1066MHz **DDR3**, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; *Non-italics:* standard memory in one socket; one socket available
SATA DVD±RW	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable, tray-in
SATA disk	**320GB**[8] (7200 rpm) or **500GB** (5400 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, Active Protection System™
Widescreen display	*Some:* **15.6"** (395mm) **HD (1366x768) color**, anti-glare, **LED backlight**, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio *Some:* **15.6"** (395mm) **HD (1366x768) color**, **VibrantView** (glossy), **LED backlight**, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio
Camera	Camera on top of screen, 0.3-megapixel or 2.0-megapixel, fixed focus
Integrated graphics	**ATI™ Radeon™ HD 4250 graphics**, in RS880M, external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI™ (supporting HDCP to output protected content); supports dual independent display; *Max external resolution:* 2456x1536@60Hz
Keyboard	6-row, spill-resistant, multimedia Fn keys
TrackPoint®	TrackPoint® pointing device, Internet Scroll Bar[13]
Touch pad	UltraNav™, wide touch pad below keyboard, Tap Zones, multi-touch
ThinkLight™	None
Dimensions[3]	*15.6W" (WxDxH):* 14.96" x 9.72" x 1.27-1.48"; 380 x 247mm x 32.3-37.5mm
Weight[2]	*4-cell:* from 5.40 lb (2.45kg); *6-cell:* from 5.58 lb (2.53kg); *9-cell:* from 5.95 lb (2.70kg)
Case color	Matte black (top) or glossy black (top), trimmed with a thin silver band (side); black bottom
Case material	Acrylonitrile-Butadiene-Styrene (ABS) plastic
Battery - type[37]	Lithium Ion **6-cell**
Battery - life[10]	*4-cell:* up to 2.6 hr; *6-cell:* up to 4 hr; *9-cell:* up to 6 hr
Chipset	**AMD RS880M Chipset**, SB820M south bridge
ExpressCard/34	One ExpressCard/34
Multicard Reader	7-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC, XD, XD Type H)
Ports	Three USB 2.0 (one powered), one USB 2.0/eSATA combo port, external monitor (VGA DB-15, HDMI), ethernet (RJ-45)
PCIe Mini Card 11b/g/n	One PCI Express Half Mini Card slot 11b/g/n wireless[4], ThinkPad 11b/g/n, PCIe Half Mini Card
Modem	None
Bluetooth™	None
Ethernet	Realtek® RTL8111DL Gigabit Network Connection
Audio support	High Definition (HD) Audio, Realtek ALC269 codec / stereo speakers, 1.5 watt x 2/ mono digital microphone, combo audio/mic jack
Security	Power-on password, hard disk password, supervisor password, security keyhole
Security chip	None
Fingerprint reader	None
Limited warranty[12]	**1-year** - depot repair service / service upgrades[22] available

Preloaded operating system[20]
- *Some:* Genuine Windows® 7 Home Premium 64
- *Some:* Genuine Windows 7 Professional 64

Preloaded applications[14] (only some listed)
- Rescue and Recovery™
- Access Connections™
- Password Manager
- ThinkVantage Power Manager
- ThinkVantage System Update
- ThinkVantage Toolbox
- Adobe® Reader®
- Adobe Flash® Player
- Skype™ for Windows
- Microsoft Office 2010 preloaded; purchase product key to activate
- Microsoft Research AutoCollage Touch

Supports ThinkVantage® technologies

65-watt AC adapter
EPEAT™ Gold rating
ENERGY STAR® 5.0-compliant
RoHS-compliant
International Warranty Service[17]
24 hour x 7 day[18] toll-free support during the warranty period[12] via 800-426-7378

ThinkPlus™,[22] 1-year LOR[24] 9x5 NBD 45K5968
ThinkPlus 2-year LOR 9x5 NBD 45K5969
ThinkPlus 3-year LOR 9x5 NBD 45K5970
ThinkPlus 4-year LOR 9x5 NBD 45K5973
ThinkPlus 2-year P&L P/U Depot 45K5971
ThinkPlus 3-year P&L P/U Depot 45K5972
ThinkPlus 4-year P&L P/U Depot 45K5974
Post-warranty annual maintenance agreements at **lenovo.com**/thinkplus/warranty

See footnotes for important warranty information

☞ US models announced March 1, 2011; previous models on September 28, 2010 or January 11, 2011

✂ US models withdrawn effective June 2011

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(LDN1-6) March 2011

ThinkPad® Edge 15" Accessories

Memory

1GB PC3-8500 DDR3 Low-Halogen SODIMM	55Y3706	*ann 06/23/09*
1GB PC3-8500 DDR3 L-H SODIMM (25-Pack)	57Y4385	*ann 06/23/09*
2GB PC3-8500 DDR3 Low-Halogen SODIMM	55Y3707	*ann 06/23/09*
2GB PC3-8500 DDR3 L-H SODIMM (25-Pack)	57Y4386	*ann 06/23/09*
1GB PC3-10600 DDR3 L-H SODIMM	55Y3709	*ann 03/02/10*
1GB PC3-10600 DDR3 L-H SODIMM (25Pack)	57Y4415	*ann 03/02/10*
2GB PC3-10600 DDR3 L-H SODIMM	55Y3710	*ann 03/02/10*
2GB PC3-10600 DDR3 L-H SODIMM (25Pack)	57Y4416	*ann 03/02/10*
4GB PC3-10600 DDR3 L-H SODIMM	55Y3711	*ann 03/02/10*

Storage and removable storage

USB 2.0 Portable 320GB Hard Disk	45K1689	*ann 03/17/09*
USB 2.0 Portable 500GB Hard Disk	45K1690	*ann 05/26/09*
USB 2.0 Portable Secure 320GB Hard Disk	43R2019	*ann 11/18/08*
eSATA/USB 2.0 Secure 500GB Hard Drive	57Y4400	*ann 01/07/10*
Lenovo Slim USB Portable DVD Burner	0A33988	*ann 06/14/11*

ThinkPad Expansion

Lenovo® Essential Notebook Stand	45J9292	*ann 05/12/09*
USB 2.0 Port Replicator with Digital Video	0A33942	*ann 03/22/11*

Keyboard

TrackPoint Cap Collection	73P2698	*ann 12/16/03*
USB Numeric Keypad	33L3225	*ann 05/01/00*
Preferred Pro USB Keyboard	73P5220	*ann 06/21/05*
Enhanced Performance USB Keyboard	73P2620	*ann 03/23/04*
Lenovo Mini Wireless Keyboard N5901[52] (blk)	57Y6336	
Ultraslim Wireless Keyboard and Mouse[52]	57Y4700	*ann 09/15/09*

[52] Wireless via 2.4GHz technology using a micro-size USB receiver.

ThinkPad USB Keyboard with TrackPoint	55Y9003	*ann 08/18/09*
Lenovo USB Fingerprint Keyboard	73P4730	*ann 02/22/05*
Lenovo USB Smartcard Keyboard	51J0155	*ann 03/24/09*

Mouse

Lenovo Optical Mouse (USB)	06P4069	*ann 05/21/03*
Lenovo Laser Mouse (USB)	41U3074	*ann 01/23/07*
ThinkPad USB Laser Mouse	57Y4635	*ann 12/15/09*
Lenovo ScrollPoint® Mouse (USB, Optical)	31P7405	*ann 08/27/02*
ThinkPad Travel Mouse (USB, Optical)	31P7410	*ann 06/04/02*
ThinkPad Bluetooth Laser Mouse	41U5008	*ann 01/22/08*
Lenovo Wireless Laser Mouse - Black[52]	45K1696	*ann 11/25/08*
Lenovo Wireless Laser Mouse - Red/Black[52]	51J0198	*ann 11/25/08*
Lenovo Optical Mouse A6010 (black)	57Y6255	
Lenovo Mini Optical Mouse M20B	55Y2091	
Lenovo Wireless Mouse N30B (black)	55Y9360	

Security

3M 15.6W Privacy Filter from Lenovo	0A61771	*ann 04/05/11*
Kensington® MicroSaver® Cable Lock	73P2582	*ann 12/29/03*
Kensington Twin Head Cable Lock	45K1620	*ann 09/30/08*
Lenovo Security Cable Lock	57Y4303	*ann 08/24/10*
USB Gemplus GemPC Smart Card Reader	41N3040	*ann 02/21/06*

Multimedia

ThinkPad In-Ear Headphones with mic	57Y4488	*ann 01/07/10*
Lenovo Mini Speakers M220	55Y2033	*ann 01/07/10*
Lenovo Headphone P550	55Y2065	

Modem

USB 2.0 Lenovo Modem	43R1814	*ann 02/26/08*

Batteries[37]

ThinkPad Battery 25 (4-cell)	51J0498	*ann 10/22/09*
ThinkPad Battery 25+ (6-cell)	51J0499	*ann 10/22/09*
ThinkPad Battery 25++ (9-cell)	51J0500	*ann 10/22/09*
ThinkPad External Battery Charger[44]	40Y7625	*ann 09/20/05*

[44] Requires the *ThinkPad 90W AC Adapter 40Y7659* or the adapter provided with the system.

More information at **www.lenovo.com/alldaycomputing**

ThinkPad 65W AC Adapter[45]	40Y7696	*ann 01/05/06*

[45] Only compatible with the integrated graphics models.

ThinkPad 90W AC Adapter	40Y7659	*ann 09/20/05*
ThinkPad 65W AC Adapter with USB Hub	57Y4600	*ann 09/07/10*
90W Ultraslim AC/DC Combo Adapter	41R4493	*ann 09/22/09*

More info at **www.lenovo.com/support/poweradapters**

Charging tips for 90W Ultraslim AC/DC Combo Adapter 41R4493

•iPod and iPhone Charge Tip (L10a)	41R4481	*ann 12/18/07*
•Generic Micro USB charge tip (L18)	41R4490	*ann 01/06/09*

More information at **www.lenovopowertips.com**

Carrying Cases

ThinkPad 15W Case Sleeve	51J0477	*ann 08/18/09*
Lenovo Business Messenger Case	51J0475	*ann 08/18/09*
Lenovo Messenger Max	41U5253	*ann 05/01/07*
Lenovo Performance BackPack	41U5254	*ann 05/01/07*
ThinkPad Business Topload Case	43R2476	*ann 05/13/08*
ThinkPad Business Backpack	43R2482	*ann 05/13/08*
ThinkPad Deluxe Expander Case	43R2478	*ann 05/13/08*
ThinkPad Executive Leather Case	43R2480	*ann 05/13/08*

More information at **www.lenovo.com/support/cases**

Monitors

ThinkVision® L1711p 17" Monitor	5047HB2	*ann 10/20/09*
ThinkVision L1900p 19" Monitor	4431HE1	*ann 11/11/08*
ThinkVision L1951p Wide 19" Monitor	2448HB6	*ann 10/20/09*
ThinkVision L2250p Wide 22" Monitor	2572HB6	*ann 10/20/09*
ThinkVision L2251p Wide 22" Monitor	2572HD6	*ann 10/20/09*
ThinkVision L2251x Wide 22" Monitor	2578HB6	*ann 10/20/09*
ThinkVision L2321x Wide 23" Monitor	4014HB6	*ann 06/10/10*
ThinkVision L2440p Wide 24" Monitor	4420HB2	*ann 09/17/08*

More information at **www.lenovo.com/support/monitors**

Monitor Accessories[46]

Lenovo USB-to-DVI Monitor Adapter	45K5296	*ann 05/12/09*
ThinkVision USB Soundbar	40Y7616	*ann 08/23/05*
ThinkVision Soundbar	45K1263	*ann 09/16/08*
Kensington MicroSaver Cable Lock	73P2582	*ann 12/29/03*
Kensington Twin Head Cable Lock	45K1620	*ann 09/30/08*
Lenovo Security Cable Lock	57Y4303	*ann 08/24/10*
Lenovo Easy Reach Monitor Stand	55Y9258	*ann 09/22/09*

[46] Compatible on selected Lenovo and ThinkVision monitors.

More information at **www.lenovo.com/support/monitoraccessories**

For more information on accessories:

www.lenovo.com/accessories
Purchase Lenovo accessories

www.lenovo.com/support/accessories
Product specifications on Lenovo Support

www.lenovo.com/accessoriesguide
Option Compatibility Matrix (OCM) and accessory brochures

www.lenovoquickpick.com
An Options Compatibility Configurator for Lenovo systems

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ThinkPad®

Lenovo® ThinkPad Edge E520

Lenovo ThinkPad Edge E520

Lenovo ThinkPad Edge E520

Lenovo ThinkPad Edge E520

Lenovo ThinkPad Edge E520

Lenovo ThinkPad Edge E520

ThinkPad® Edge E520 1143 (Intel) - TopSeller

Type-model	Processor	Memory	Wide-screen display	Camera	Disk SATA GB[8] rpm	PCIe Mini Card WLAN	PCIe Mini Card WWAN /mSATA	Carrier	Top color	Finger print reader	Blue-tooth	Bat-tery cells	Preload
1143-3BU	i3-2310M	4GBx1	15.6" HD	720p	320G 7200	TP 11b/g/n	None	None	Matte black			6	Pro 64
1143-3CU	i3-2310M	4GBx1	15.6" HD	720p	320G 7200	TP 11b/g/n	None	None	Matte black			6	Prem 64
1143-3DU	i3-2310M	4GBx1	15.6" HD	720p	500G 7200	Intel 1000	None	None	Matte black	Finger	Blue	6	Prem 64
1143-3EU	i3-2310M	4GBx1	15.6" HD	720p	500G 7200	Intel 1000	None	None	Matte black	Finger	Blue	6	Pro 64
1143-3FU	i5-2410M	4GBx1	15.6" HD	720p	500G 7200	Intel 1000	None	None	Matte black	Finger	Blue	6	Pro 64
1143-3GU	i5-2410M	4GBx1	15.6" HD	720p	500G 7200	Intel 1000	None	None	Matte black	Finger	Blue	6	Prem 64
☞ 1143-7RU	i5-2520M	2GBx2	15.6" HD	720p	500G 7200	Intel 1000	None	None	Matte black	Finger	Blue	6	Pro 64

- ***These small and medium business (SMB) models are part of the US TopSeller™ Program***
- ***These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)***

Positioning	*Sophisticated design with quality, durability and reliability for SMB customers; two spindles*
Processor	**Intel® Core™ i3-2310M processor (dual-core, 2.10GHz, 3MB Cache)**, DDR3 memory controller (up to 1333MHz), HT technology **Intel Core i5-2410M processor (dual-core, 2.30GHz, 3MB Cache)**, DDR3 memory controller (up to 1333MHz), Intel Turbo Boost 2.0 (2.90GHz), HT technology **Intel Core i5-2520M processor (dual-core, 2.50GHz, 3MB Cache)**, DDR3 memory controller (up to 1333MHz), Intel Turbo Boost 2.0 (3.20GHz), HT technology
Memory	8GB max[7] / PC3-10600 1333MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets
Optical	DVD burner, 12.7mm high, fixed, not removable, tray-in
SATA disk	Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™
mSATA™ SSD	None
Widescreen display	**15.6"** (395mm) **HD (1366x768) color**, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio
Camera	HD720p resolution, wide view angle, low light sensitive, fixed focus
Graphics	**Intel HD Graphics 3000** in processor, external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI™ (supporting HDCP to output protected content); supports dual independent display; *Max external resolution:* 2048x1536 (VGA)@75Hz; 1920x1200 (HDMI)@60Hz
Keyboard	6-row, spill-resistant, multimedia Fn keys, numeric keypad
TrackPoint®	TrackPoint® pointing device, Internet Scroll Bar[13]
Touchpad	UltraNav™, wide touchpad below keyboard, Tap Zones, multi-touch
ThinkLight™	None
Dimensions[3]	*15.6W" (WxDxH):* 14.96" x 9.78" x 1.15-1.33"; 380 x 248.5mm x 29.3-33.7mm
Weight[2]	*4-cell:* from 5.2 lb (2.4kg); *6-cell:* from 5.51 lb (2.5kg); *9-cell:* from 5.86 lb (2.66kg)
Case color	Matte black or Matte red (top), trimmed with a thin silver band (side); black bottom
Case material	Acrylonitrile-Butadiene-Styrene (ABS) plastic
Battery - type[37]	Lithium Ion 4-cell, 6-cell, or 9-cell
Battery - life[10]	*4-cell:* up to 4.1 hr; *6-cell:* up to 6.2 hr; *9-cell:* up to 11.7 hr
Chipset	**Mobile Intel HM65 Express Chipset**
ExpressCard	One ExpressCard/34
Multicard Reader	4-in-1 reader (MMC, SD, SDHC, SDXC)
Ports	Three USB 2.0 (one powered), one USB 2.0/eSATA combo port, external monitor (VGA DB-15, HDMI), ethernet (RJ-45)
PCIe Mini Card WLAN[4]	Two PCI Express Half Mini Card slots *Some:* ThinkPad 11b/g/n, PCIe Half Mini Card, Realtek® chipset, 1x1 *Some:* 11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 1000, 1x2
WWAN	None
Modem	None
Bluetooth™	*Some:* Bluetooth 3.0 wireless
Ethernet	Realtek® RTL8111E Gigabit Network Connection
Audio support	High Definition (HD) Audio, Conexant 20671 codec / stereo speakers, 1 watt x 2/ mono digital microphone, combo audio/mic jack
Security	Power-on password, hard disk password, supervisor password, security keyhole
Security chip	None
Fingerprint reader	*Some:* UPEK Fingerprint reader on palm rest, swipe sensor
Limited warranty[12]	**1-year** - depot repair service / service upgrades[22] available

Preloaded operating system[20]
- *Some:* Genuine Windows® 7 Home Premium 64
- *Some:* Genuine Windows 7 Professional 64

Ready to install applications[14] (all OSes; only some listed)
- Rescue and Recovery™
- Access Connections™
- Fingerprint Software (fingerprint models)
- Password Manager (fingerprint models)
- ThinkVantage System Update
- ThinkVantage Power Manager
- ThinkVantage Toolbox

Preloaded applications[14] (all OSes; only some listed)
- Norton™ Internet Security 2011 (30 days of virus definitions)
- Adobe® Reader®
- Skype™ for Windows
- Windows Live™ Essentials
- Microsoft Office 2010 preloaded; purchase product key to activate
- Adobe Acrobat® X Standard (bundled with Microsoft Office)
- Corel® WinDVD® (DVD±RW)
- Corel Burn.Now™ Lenovo Edition (DVD±RW)
- Corel DVD MovieFactory® Lenovo Edition (DVD±RW)

Supports ThinkVantage® technologies

65-watt AC adapter
EPEAT™ Gold rating
ENERGY STAR® 5.0-compliant
RoHS-compliant
International Warranty Service[17]
24 hour x 7 day[18] toll-free support during the warranty period[12] via 800-426-7378

For compatible accessories, please go to O-E520 sheet;

For ThinkPlus™, [22] service upgrade options, please go to S-EDGE sheet

See footnotes for more detailed information

☞ US model announced June 21, 2011; previous models on April 19, 2011

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ThinkPad® Edge E520 Accessories

Memory

1GB PC3-10600 DDR3 L-H SODIMM	55Y3709	*ann 03/02/10*
1GB PC3-10600 DDR3 L-H SODIMM (25Pack)	57Y4415	*ann 03/02/10*
2GB PC3-10600 DDR3 L-H SODIMM	55Y3710	*ann 03/02/10*
2GB PC3-10600 DDR3 L-H SODIMM (25Pack)	57Y4416	*ann 03/02/10*
4GB PC3-10600 DDR3 L-H SODIMM	55Y3711	*ann 03/02/10*

Storage and removable storage

USB 2.0 Portable 320GB Hard Disk	45K1689	*ann 03/17/09*
USB 2.0 Portable 500GB Hard Disk	45K1690	*ann 05/26/09*
USB 2.0 Portable Secure 320GB Hard Disk	43R2019	*ann 11/18/08*
eSATA/USB 2.0 Secure 500GB Hard Drive	57Y4400	*ann 01/07/10*
Lenovo Slim USB Portable DVD Burner	0A33988	*ann 06/14/11*

ThinkPad Expansion

Lenovo® Essential Notebook Stand	45J9292	*ann 05/12/09*
USB 2.0 Port Replicator with Digital Video	0A33942	*ann 03/22/11*

Keyboard

TrackPoint Cap Collection	73P2698	*ann 12/16/03*
USB Numeric Keypad	33L3225	*ann 05/01/00*
Preferred Pro USB Keyboard	73P5220	*ann 06/21/05*
Enhanced Performance USB Keyboard	73P2620	*ann 03/23/04*
Lenovo Mini Wireless Keyboard N5901[52] (blk)	57Y6336	

[52] Wireless via 2.4GHz technology using a micro-size USB receiver.

ThinkPad USB Keyboard with TrackPoint	55Y9003	*ann 08/18/09*
Lenovo USB Fingerprint Keyboard	73P4730	*ann 02/22/05*
Lenovo USB Smartcard Keyboard	51J0155	*ann 03/24/09*

Mouse

Lenovo Optical Mouse (USB)	06P4069	*ann 05/21/03*
Lenovo Laser Mouse (USB)	41U3074	*ann 01/23/07*
ThinkPad USB Laser Mouse	57Y4635	*ann 12/15/09*
Lenovo ScrollPoint® Mouse (USB, Optical)	31P7405	*ann 08/27/02*
ThinkPad Travel Mouse (USB, Optical)	31P7410	*ann 06/04/02*
ThinkPad Bluetooth Laser Mouse	41U5008	*ann 01/22/08*
Lenovo Wireless Laser Mouse - Black[52]	45K1696	*ann 11/25/08*
Lenovo Wireless Laser Mouse - Red/Black[52]	51J0198	*ann 11/25/08*
Lenovo Optical Mouse A6010 (black)	57Y6255	
Lenovo Wireless Mouse N30B (black)	55Y9360	

Security

Kensington® MicroSaver® Cable Lock	73P2582	*ann 12/29/03*
Kensington Twin Head Cable Lock	45K1620	*ann 09/30/08*
Lenovo Security Cable Lock	57Y4303	*ann 08/24/10*
USB Gemplus GemPC Smart Card Reader	41N3040	*ann 02/21/06*

Multimedia

ThinkPad In-Ear Headphones with mic	57Y4488	*ann 01/07/10*
Lenovo Mini Speakers M220	55Y2033	*ann 01/07/10*

Modem

USB 2.0 Lenovo Modem	43R1814	*ann 02/26/08*

Batteries[37]

ThinkPad Battery 25 (4-cell)	51J0498	*ann 10/22/09*
ThinkPad Battery 25+ (6-cell)	51J0499	*ann 10/22/09*
ThinkPad Battery 25++ (9-cell)	51J0500	*ann 10/22/09*
ThinkPad External Battery Charger[44]	40Y7625	*ann 09/20/05*

[44] Requires the *ThinkPad 90W AC Adapter 40Y7659* or the adapter provided with the system.

More information at **www.lenovo.com/alldaycomputing**

ThinkPad 65W AC Adapter[45]	40Y7696	*ann 01/05/06*

[45] Only compatible with the integrated graphics models.

ThinkPad 90W AC Adapter	40Y7659	*ann 09/20/05*
ThinkPad 65W AC Adapter with USB Hub	57Y4600	*ann 09/07/10*
90W Ultraslim AC/DC Combo Adapter	41R4493	*ann 09/22/09*

More info at **www.lenovo.com/support/poweradapters**

Charging tips for 90W Ultraslim AC/DC Combo Adapter 41R4493

•iPod and iPhone Charge Tip (L10a)	41R4481	*ann 12/18/07*
•Generic Micro USB charge tip (L18)	41R4490	*ann 01/06/09*

More information at **www.lenovopowertips.com**

Carrying Cases

Up to 15.6" widescreen models:

Lenovo Business Messenger Case	51J0475	*ann 08/18/09*
Lenovo Messenger Max	41U5253	*ann 05/01/07*
Lenovo Performance BackPack	41U5254	*ann 05/01/07*
ThinkPad Business Topload Case	43R2476	*ann 05/13/08*
ThinkPad Business Backpack	43R2482	*ann 05/13/08*
ThinkPad Deluxe Expander Case	43R2478	*ann 05/13/08*
ThinkPad Executive Leather Case	43R2480	*ann 05/13/08*
Wenger Backpack for Lenovo	57Y4271	*ann 01/07/10*
Wenger Slim Case for Lenovo	57Y4273	*ann 01/07/10*
Wenger Deluxe Slim Case for Lenovo	57Y4272	*ann 01/07/10*

More information at **www.lenovo.com/support/cases**

Monitors

ThinkVision® L1711p 17" Monitor	5047HB2	*ann 10/20/09*
ThinkVision L1900p 19" Monitor	4431HE1	*ann 11/11/08*
ThinkVision L1951p Wide 19" Monitor	2448HB6	*ann 10/20/09*
ThinkVision L2250p Wide 22" Monitor	2572HB6	*ann 10/20/09*
ThinkVision L2251p Wide 22" Monitor	2572HD6	*ann 10/20/09*
ThinkVision L2251x Wide 22" Monitor	2578HB6	*ann 10/20/09*
ThinkVision L2321x Wide 23" Monitor	4014HB6	*ann 06/10/10*
ThinkVision L2440p Wide 24" Monitor	4420HB2	*ann 09/17/08*

Monitor Accessories[46]

Lenovo USB-to-DVI Monitor Adapter	45K5296	*ann 05/12/09*
ThinkVision USB Soundbar	40Y7616	*ann 08/23/05*
ThinkVision Soundbar	45K1263	*ann 09/16/08*
Kensington MicroSaver Cable Lock	73P2582	*ann 12/29/03*
Kensington Twin Head Cable Lock	45K1620	*ann 09/30/08*
Lenovo Security Cable Lock	57Y4303	*ann 08/24/10*
Lenovo Easy Reach Monitor Stand	55Y9258	*ann 09/22/09*

[46] Compatible on selected Lenovo and ThinkVision monitors.

More information at **www.lenovo.com/support/monitoraccessories**

For more information on accessories:

www.lenovo.com/accessories
Purchase Lenovo accessories

www.lenovo.com/support/accessories
Product specifications on Lenovo Support

www.lenovo.com/accessoriesguide
Option Compatibility Matrix (OCM) and accessory brochures

www.lenovoquickpick.com
An Options Compatibility Configurator for Lenovo systems

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ThinkPad®

Lenovo® ThinkPad SL410

Lenovo ThinkPad SL410

Lenovo ThinkPad SL410

Lenovo ThinkPad SL410

Lenovo ThinkPad SL410 buttons

Lenovo ThinkPad SL410 lights

ThinkPad® SL410 2842 (GMA) - TopSeller (Windows 7)

	Type-model	Proc-essor	GHz	Memory	Wide-screen display	CCFL or LED	Screen type	Cam-era	Integrated graphics	Disk SATA GB[8] rpm	SATA optical	Mini PCIe 802.11 wireless	Mini PCIe WWAN	Blue-tooth	Finger print reader	Bat-tery cells	Preload	Avail date
✂	2842-F7U	T6570	2.10	2GB	14.0" HD	LED	Glossy	2.0M	GMA	250G 5400	DVD±RW	✶Intel 1000	None			6	Pro 32	Jan 10
✂	2842-F8U	T6570	2.10	*3GB*	14.0" HD	LED	Glossy	2.0M	GMA	320G 7200	DVD±RW	✶Intel 1000	None			6	Pro 32	Jan 10
✂	2842-F9U	T6670	2.20	*4GB*	14.0" HD	LED	Glossy	2.0M	GMA	320G 7200	DVD±RW	✶Intel 1000	None	Blue	Fing	6	Pro 64	Jan 10
☞	2842-K3U	T6670	2.20	2GB	14.0" HD	LED	Glossy	0.3M	GMA	250G 5400	DVD±RW	✶Intel 1000	None			6	Pro 64	Sep 10
☞	2842-K4U	T6670	2.20	*3GB*	14.0" HD	LED	Glossy	0.3M	GMA	500G 7200	DVD±RW	✶Intel 1000	None			6	Pro 64	Sep 10

- ***These small and medium business (SMB) models are part of the US TopSeller™ Program***
- ***These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)***

Processor	**Intel® Core™ 2 Duo processor T6570** or **T6670** with **dual-core**, 800MHz system bus, and 2MB L2 cache
Memory	**2GB**, **3GB**, or **4GB** std / 8GB max[7] / PC3-8500 1066MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; *Italics:* standard memory in both sockets; no sockets available; *Non-italics:* standard memory in one socket; one socket available
SATA DVD±RW SATA disk	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable, tray-in **250GB**[8] (5400 rpm), **320GB** (7200 rpm), or **500GB** (7200 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, ThinkPad Shock Mounted Hard Drive, Active Protection System™
Widescreen display Camera	**14.0"** (355mm) **HD (1366x768) color**, **VibrantView** (glossy), **LED backlight**, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio Camera on top of screen, 0.3-megapixel or 2.0-megapixel, fixed focus
Integrated graphics	**Intel Graphics Media Accelerator 4500MHD (GMA 4500MHD)**, in GM45, HDMI port supporting HDCP to output protected content; *Max external resolution:* 2048x1536@75Hz (VGA DB-15 port); 1920x1080 (HDMI port)
Keyboard TrackPoint® Touch pad Lighting FX	6-row, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, Internet Scroll Bar[13], magnifying glass UltraNav™, wide touch pad below keyboard, Tap Zones, scrolling regions label, multi-touch Illuminated power button
Dimensions[3] Weight[2] Case color Case material Battery - type[37] Battery - life[10]	*4/6-cell 14.0W" (WxDxH):* 13.54" x 9.17" x 1.26–1.42"; 344mm x 233mm x 32–36mm *4-cell:* starting at 4.59 lb (2.08kg); *6-cell:* starting at 5.1 lb (2.3kg) ThinkPad Matte Black Scratch-resistant ABS plastic Lithium Ion **6-cell** *6-cell:* up to 4.0 hr; *9-cell:* up to 6 hr
Chipset ExpressCard Multicard Reader PC Card Smart Card Read Ports	**Mobile Intel GM45 Express Chipset** (Graphics Memory Controller Hub), ICH9M I/O Controller Hub (SATA 3.0Gb/s, USB 2.0, PCI Express® 1.1, PCI 2.3, ethernet MAC), LPC bus (IT8752) One slot (ExpressCard/34) 7-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC, XD, XD Type H) None None Three USB 2.0, one eSATA/USB combo port, external monitor (VGA DB-15, HDMI), ethernet (RJ-45)
Mini PCI Express Intel 1000 WWAN upg Modem Bluetooth™ Ethernet Intel AMT Audio support Security Security chip Fingerprint reader	One Mini PCI Express slot 11b/g/n wireless[4], Mini PCIe adapter, Intel Centrino® Wireless-N 1000, 1x2 None None *Some:* Bluetooth 2.1 wireless, LED indicator Realtek RTL8111DL Gigabit Network Connection, PHY, PCIe x1 None High Definition (HD) Audio, ALC269Q codec / stereo speakers, 1.5 watt / speaker volume up, down and mute buttons / mono microphone, mic mute button, mic input jack, headphone jack Power-on password, hard disk password, supervisor password, security keyhole None *Some:* Fingerprint reader on palm rest, swipe sensor
Limited warranty[12]	**1-year** - depot repair service / service upgrades[22] available

Preloaded operating system[20]
- *Some:* Genuine Windows® 7 Professional 32
- *Some:* Genuine Windows 7 Professional 64

Preloaded applications[14] (only some listed)
- Rescue and Recovery™
- Access Connections™
- Password Manager
- ThinkVantage Power Manager
- ThinkVantage System Update
- Fingerprint Software (fingerprint models)
- ThinkVantage Toolbox
- Microsoft Office 2010 preloaded; purchase product key to activate
- Adobe® Reader®
- Adobe Flash® Player
- Roxio® Creator® Business Edition (DVD±RW)

Supports ThinkVantage® technologies

65-watt (GMA graphics) AC adapter
EPEAT™ Gold rating
ENERGY STAR® 5.0-compliant
RoHS-compliant
International Warranty Service[17]
24 hour x 7 day[18] toll-free support during the warranty period[12] via 800-426-7378

ThinkPlus™,[22] 1-year LOR[24] 9x5 NBD 45K5968
ThinkPlus 2-year LOR 9x5 NBD 45K5969
ThinkPlus 3-year LOR 9x5 NBD 45K5970
ThinkPlus 4-year LOR 9x5 NBD 45K5973
ThinkPlus 5-year LOR 9x5 NBD 45K5975
ThinkPlus 2-year P&L P/U Depot 45K5971
ThinkPlus 3-year P&L P/U Depot 45K5972
ThinkPlus 4-year P&L P/U Depot 45K5974
ThinkPlus 5-year P&L P/U Depot 45K5976
Post-warranty annual maintenance agreements at **lenovo.com**/thinkplus/warranty

See footnotes for important warranty information ✶ Intel Centrino® processor technology

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(JAD1-3) October 2010

☞ US models announced September 28, 2010; previous models on December 15, 2009

✂ US models withdrawn effective December 2010 or January 2011

ThinkPad® SL410 Accessories

Memory

1GB PC3-8500 DDR3 Low-Halogen SODIMM	55Y3706	*ann 06/23/09*
1GB PC3-8500 DDR3 L-H SODIMM (25-Pack)	57Y4385	*ann 06/23/09*
2GB PC3-8500 DDR3 Low-Halogen SODIMM	55Y3707	*ann 06/23/09*
2GB PC3-8500 DDR3 L-H SODIMM (25-Pack)	57Y4386	*ann 06/23/09*
4GB PC3-8500 DDR3 Low-Halogen SODIMM	55Y3708	*ann 06/23/09*
1GB PC3-10600 DDR3 L-H SODIMM	55Y3709	*ann 03/02/10*
1GB PC3-10600 DDR3 L-H SODIMM (25Pack)	57Y4415	*ann 03/02/10*
2GB PC3-10600 DDR3 L-H SODIMM	55Y3710	*ann 03/02/10*
2GB PC3-10600 DDR3 L-H SODIMM (25Pack)	57Y4416	*ann 03/02/10*
4GB PC3-10600 DDR3 L-H SODIMM	55Y3711	*ann 03/02/10*

Storage and removable storage

SL410/510 500GB Disk SATA 3G/s (5400 rpm)	43N3422	*ann 10/22/09*
USB 2.0 Portable 320GB Hard Disk	45K1689	*ann 03/17/09*
USB 2.0 Portable 500GB Hard Disk	45K1690	*ann 05/26/09*
USB 2.0 Portable Secure 320GB Hard Disk	43R2019	*ann 11/18/08*
eSATA/USB 2.0 Secure 500GB Hard Drive	57Y4400	*ann 01/07/10*
Lenovo Slim USB Portable DVD Burner	0A33988	*ann 06/14/11*

ThinkPad Expansion

Lenovo® Essential Notebook Stand	45J9292	*ann 05/12/09*
USB 2.0 Port Replicator with Digital Video	0A33942	*ann 03/22/11*

Keyboard

TrackPoint Cap Collection	73P2698	*ann 12/16/03*
USB Numeric Keypad	33L3225	*ann 05/01/00*
Preferred Pro USB Keyboard	73P5220	*ann 06/21/05*
Enhanced Performance USB Keyboard	73P2620	*ann 03/23/04*
Lenovo Mini Wireless Keyboard N5901[52] (blk)	57Y6336	
Ultraslim Wireless Keyboard and Mouse[52]	57Y4700	*ann 09/15/09*

[52] Wireless via 2.4GHz technology using a micro-size USB receiver.

ThinkPad USB Keyboard with TrackPoint	55Y9003	*ann 08/18/09*
Preferred Pro USB Fingerprint Keyboard	73P4730	*ann 02/22/05*
Lenovo USB Smartcard Keyboard	51J0155	*ann 03/24/09*

Mouse

Lenovo Optical Mouse (USB)	06P4069	*ann 05/21/03*
Lenovo Laser Mouse (USB)	41U3074	*ann 01/23/07*
ThinkPad USB Laser Mouse	57Y4635	*ann 12/15/09*
Lenovo ScrollPoint® Mouse (USB, Optical)	31P7405	*ann 08/27/02*
ThinkPad Travel Mouse (USB, Optical)	31P7410	*ann 06/04/02*
ThinkPad Bluetooth Laser Mouse	41U5008	*ann 01/22/08*
Lenovo Optical Mouse A6010 (black)	57Y6255	
Lenovo Mini Optical Mouse M20B	55Y2091	
Lenovo Wireless Mouse N30B (black)	55Y9360	

Security

3M 14.0W Privacy Filter from Lenovo	0A61769	*ann 04/05/11*
Kensington® MicroSaver® Cable Lock	73P2582	*ann 12/29/03*
Kensington Twin Head Cable Lock	45K1620	*ann 09/30/08*
Lenovo Security Cable Lock	57Y4303	*ann 08/24/10*
USB Gemplus GemPC Smart Card Reader	41N3040	*ann 02/21/06*

Multimedia

ThinkPad In-Ear Headphones with mic	57Y4488	*ann 01/07/10*
Lenovo Mini Speakers M220	55Y2033	*ann 01/07/10*
Lenovo Headphone P550	55Y2065	

Modem

USB 2.0 Lenovo Modem	43R1814	*ann 02/26/08*

Batteries[37]

ThinkPad Battery 25 (4-cell)	51J0498	*ann 10/22/09*
ThinkPad Battery 25+ (6-cell)	51J0499	*ann 10/22/09*
ThinkPad Battery 25++ (9-cell)	51J0500	*ann 10/22/09*
ThinkPad External Battery Charger[44]	40Y7625	*ann 09/20/05*

[44] Requires the *ThinkPad 90W AC Adapter 40Y7659* or the adapter provided with the system.

More information at **www.lenovo.com/alldaycomputing**

ThinkPad 65W AC Adapter[45]	40Y7696	

[45] Only compatible with the integrated graphics models.

ThinkPad 90W AC Adapter	40Y7659	*ann 09/20/05*
ThinkPad 65W AC Adapter with USB Hub	57Y4600	*ann 09/07/10*
90W Ultraslim AC/DC Combo Adapter	41R4493	*ann 09/22/09*

More info at **www.lenovo.com/support/poweradapters**

Charging tips for 90W Ultraslim AC/DC Combo Adapter 41R4493

•iPod and iPhone Charge Tip (L10a)	41R4481	*ann 12/18/07*
•Generic Micro USB charge tip (L18)	41R4490	*ann 01/06/09*

More information at **www.lenovopowertips.com**

Carrying Cases

Up to 14" widescreen models:

ThinkPad 14W Case Sleeve	57Y4294	*ann 03/16/10*

Up to 15.4" widescreen models:

ThinkPad 15W Case Sleeve	51J0477	*ann 08/18/09*
Lenovo Business Messenger Case	51J0475	*ann 08/18/09*
Lenovo Messenger Max	41U5253	*ann 05/01/07*
Lenovo Performance BackPack	41U5254	*ann 05/01/07*
ThinkPad Business Topload Case	43R2476	*ann 05/13/08*
ThinkPad Business Backpack	43R2482	*ann 05/13/08*
ThinkPad Deluxe Expander Case	43R2478	*ann 05/13/08*
ThinkPad Executive Leather Case	43R2480	*ann 05/13/08*

Up to 15.6" widescreen models:

Wenger Backpack for Lenovo	57Y4271	*ann 01/07/10*
Wenger Slim Case for Lenovo	57Y4273	*ann 01/07/10*
Wenger Deluxe Slim Case for Lenovo	57Y4272	*ann 01/07/10*

More information at **www.lenovo.com/support/cases**

Monitors

ThinkVision® L1711p 17" Monitor	5047HB2	*ann 10/20/09*
ThinkVision L1900p 19" Monitor	4431HE1	*ann 11/11/08*
ThinkVision L1951p Wide 19" Monitor	2448HB6	*ann 10/20/09*
ThinkVision L2250p Wide 22" Monitor	2572HB6	*ann 10/20/09*
ThinkVision L2251p Wide 22" Monitor	2572HD6	*ann 10/20/09*
ThinkVision L2251x Wide 22" Monitor	2578HB6	*ann 10/20/09*
ThinkVision L2321x Wide 23" Monitor	4014HB6	*ann 06/10/10*
ThinkVision L2440p Wide 24" Monitor	4420HB2	*ann 09/17/08*

More information at **www.lenovo.com/support/monitors**

Monitor Accessories[46]

ThinkVision USB Soundbar	40Y7616	*ann 08/23/05*
ThinkVision Soundbar	45K1263	*ann 09/16/08*
Kensington MicroSaver Cable Lock	73P2582	*ann 12/29/03*
Kensington Twin Head Cable Lock	45K1620	*ann 09/30/08*
Lenovo Security Cable Lock	57Y4303	*ann 08/24/10*
Lenovo Easy Reach Monitor Stand	55Y9258	*ann 09/22/09*

[46] Compatible on selected Lenovo and ThinkVision monitors.

More information at **www.lenovo.com/support/monitoraccessories**

For more information on accessories:

www.lenovo.com/accessories
Purchase Lenovo accessories

www.lenovo.com/support/accessories
Product specifications on Lenovo Support

www.lenovo.com/accessoriesguide
Option Compatibility Matrix (OCM) and accessory brochures

www.lenovoquickpick.com
An Options Compatibility Configurator for Lenovo systems

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Lenovo® ThinkPad SL510

Lenovo ThinkPad SL510

Lenovo ThinkPad SL510

Lenovo ThinkPad SL510

Lenovo Essential Notebook Stand
45J9292

ThinkPad SL510 Touchpad

ThinkPad® SL510 2847 (GMA) - TopSeller (Windows 7)

Type-model	proc-essor	GHz	Memory	Wide-screen display	CCFL or LED	Screen type	Cam-era	Inte-grated graphics	Disk SATA GB[8] rpm	SATA optical	Mini PCIe 802.11 wireless	Mini PCIe WWAN	Blue-tooth	Finger print reader	Bat-tery cells	Preload	Avail date
✂ 2847-2KU	T5870	2.00	2GB	15.6" HD	LED			GMA	160G 5400	DVD±RW ✶	Intel 5100[28]				6	Pro 32	Oct 09
✂ 2847-2LU	T5870	2.00	*4GB*	15.6" HD	LED		2.0M	GMA	250G 5400	DVD±RW ✶	Intel 5100		Blue		6	Home P	Oct 09
✂ 2847-2QU	P8700	2.53	*4GB*	15.6" HD	LED		2.0M	GMA	320G 5400	DVD±RW ✣	Intel 5100		Blue	Fing	6	Pro 64	Oct 09
✂ 2847-6GU	T6670	2.20	2GB	15.6" HD	LED		2.0M	GMA	250G 5400	DVD±RW ✶	WiMAX				6	Pro 32	Nov 09
✂ 2847-6HU	T6670	2.20	*3GB*	15.6" HD	LED		2.0M	GMA	250G 5400	DVD±RW ✶	Intel 5100	Verizon[16]			6	Pro 32	Nov 09
✂ 2847-9VU	T6570	2.10	*4GB*	15.6" HD	LED	Glossy	2.0M	GMA	320G 7200	DVD±RW ✶	Intel 1000[28]		Blue		6	Home P	Jan 10
✂ 2847-9YU	T6670	2.20	*4GB*	15.6" HD	LED		2.0M	GMA	320G 7200	DVD±RW ✶	Intel 1000		Blue	Fing	6	Pro 64	Jan 10
✂ 2847-9UU	T6570	2.10	2GB	15.6" HD	LED		2.0M	GMA	250G 5400	DVD±RW ✶	Intel 1000				6	Pro 32	Jan 10
✂ 2847-9XU	T6570	2.10	*3GB*	15.6" HD	LED		2.0M	GMA	320G 7200	DVD±RW ✶	Intel 1000				6	Pro 32	Jan 10
✂ 2847-9ZU	T6670	2.20	*3GB*	15.6" HD	LED		2.0M	GMA	320G 7200	DVD±RW ✶	Intel 1000	AT&T[23]			6	Pro 32	Jan 10
✂ 2847-AZU	T6570	2.10	2GB	15.6" HD	LED	Glossy	2.0M	GMA	250G 5400	DVD±RW ✶	Intel 1000				6	Home P	Apr 10
☞ 2847-CZU	T6670	2.20	2GB	15.6" HD	LED		0.3M	GMA	250G 5400	DVD±RW ✶	Intel 1000				6	Pro 64	Sep 10
☞ 2847-D2U	T6670	2.20	*3GB*	15.6" HD	LED		0.3M	GMA	500G 7200	DVD±RW ✶	Intel 1000				6	Pro 64	Sep 10

- ***These small and medium business (SMB) models are part of the US TopSeller™ Program***
- ***These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)***

Processor	**Intel® Core™ 2 Duo processor T5870**, **T6570**, or **T6670** with **dual-core**, 800MHz system bus, and 2MB L2 cache or **Intel Core 2 Duo processor P8700** with **dual-core**, Intel HD Boost, 1066MHz system bus, and 3MB L2 cache
Memory	**2GB**, **3GB**, or **4GB** std / 8GB max[7] / PC3-8500 1066MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; *Italics:* standard memory in both sockets; no sockets available; *Non-italics:* standard memory in one socket; one socket available
SATA DVD±RW	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable, tray-in
SATA disk	**160GB**[8] (5400 rpm), **250GB** (5400 rpm), **320GB** (5400 or 7200 rpm), or **500GB** (7200 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, ThinkPad Shock Mounted Hard Drive, Active Protection System™
Widescreen display	*Some:* **15.6"** (395mm) **HD (1366x768) color**, anti-glare, **LED backlight**, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio *Some:* **15.6"** (395mm) **HD (1366x768) color**, **VibrantView** (glossy), **LED backlight**, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio
Camera	*Some:* camera on top of screen, 0.3-megapixel or 2.0-megapixel, fixed focus
Integrated graphics	**Intel Graphics Media Accelerator 4500MHD (GMA 4500MHD)**, in GM45, HDMI port supporting HDCP to output protected content *Max external resolution:* 2048x1536@75Hz (VGA DB-15 port); 1920x1080 (HDMI port)
Keyboard	6-row, ThinkVantage button, spill-resistant, multimedia Fn keys, Windows and App keys
TrackPoint®	TrackPoint® pointing device, Internet Scroll Bar[13], magnifying glass
Touch pad	UltraNav™, wide touch pad below keyboard, Tap Zones, scrolling regions label, multi-touch
Lighting FX	Illuminated power button
Dimensions[3]	*4/6-cell 15.6W" (WxDxH):* 14.9" x 9.72" x 1.26–1.42"; 380 x 247mm x 32–36mm
Weight[2]	*4-cell:* starting at 5.17 lb (2.35kg); *6-cell:* starting at 5.64 lb (2.56kg)
Case	*Color:* ThinkPad Matte Black; *Material:* Scratch-resistant ABS plastic
Battery - type[37]	Lithium Ion **6-cell**
Battery - life[10]	*6-cell:* up to 4.0 hr; *9-cell:* up to 6 hr
Chipset	**Mobile Intel GM45 Express Chipset** (Graphics Memory Controller Hub), ICH9M I/O Controller Hub (SATA 3.0Gb/s, USB 2.0, PCI Express® 1.1, PCI 2.3, ethernet MAC), LPC bus (IT8752)
ExpressCard	One slot (ExpressCard/34)
Multicard reader	7-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC, XD, XD Type H)
PC Card	None
Smart Card read	None
Ports	Three USB 2.0, one eSATA/USB combo port, external monitor (VGA DB-15, HDMI), ethernet (RJ-45)
Mini PCI Express	One or two Mini PCI Express slots
Intel 1000[28]	*Some:* 11b/g/n wireless[4], Mini PCIe adapter, Intel Centrino® Wireless-N 1000, 1x2
Intel 5100[28]	*Some:* 11a/b/g/n wireless, Mini PCIe adapter, Intel WiFi Link 5100, 1x2 (Shirley Peak)
WiMAX	*Some:* 11a/b/g/n and WiMAX wireless, Mini PCIe adap, Intel WiMAX/WiFi Link 5150, 1x2 (300Mbps) WiFi + 1x2 WiMAX (Echo Peak)
Verizon[16]	*Some:* Wireless WAN, Qualcomm Gobi 1000 chipset, Mini PCIe adptr, EV-DO Rev. A, GPRS/WCDMA/HSPA, GPS, service contract required with Verizon®
AT&T[23]	*Some:* Wireless WAN, Ericsson chipset, Mini PCIe adapter and SIM, GPRS/WCDMA/HSPA, GPS, service contract required with AT&T®
Modem	None
Bluetooth™	*Some:* Bluetooth 2.1 wireless, LED indicator
Ethernet	Realtek® RTL8111DL Gigabit Network Connection, PHY, PCIe x1
Intel AMT	None
Audio support	High Definition (HD) Audio, ALC269Q codec / stereo speakers, 1.5 watt / speaker volume up, down and mute buttons / mono microphone, mic mute button, mic input jack, headphone jack
Security	Power-on password, hard disk password, supervisor password, security keyhole
Security chip	None
Fingerprint reader	*Some:* Fingerprint reader on palm rest, swipe sensor
Limited warranty[12]	**1-year** - depot repair service / service upgrades[22] available

Preloaded operating system[20]
- *Some:* Genuine Windows® 7 Home Premium 64
- *Some:* Genuine Windows 7 Professional 32
- *Some:* Genuine Windows 7 Professional 64

Preloaded applications[14] (only some listed)
- Rescue and Recovery™
- Access Connections™
- Password Manager
- ThinkVantage Power Manager
- ThinkVantage System Update
- Fingerprint Software (fingerprint models)
- ThinkVantage Toolbox
- Adobe® Reader®
- Adobe Flash® Player
- Skype™ for Windows
- Microsoft Office 2010 preloaded; purchase product key to activate
- Microsoft Research AutoCollage Touch
- Roxio® Creator® Business Edition (DVD±RW)
- Roxio MyDVD® (DVD±RW)
- Corel® WinDVD® (DVD±RW)

Supports ThinkVantage® technologies

65-watt (GMA graphics) AC adapter
EPEAT™ Gold rating
ENERGY STAR® 5.0-compliant
RoHS-compliant
International Warranty Service[17]
24 hour x 7 day[18] toll-free support during the warranty period[12] via 800-426-7378

ThinkPlus™,[22] 1-year LOR[24] 9x5 NBD 45K5968
ThinkPlus 2-year LOR 9x5 NBD 45K5969
ThinkPlus 3-year LOR 9x5 NBD 45K5970
ThinkPlus 4-year LOR 9x5 NBD 45K5973
ThinkPlus 5-year LOR 9x5 NBD 45K5975
ThinkPlus 2-year P&L P/U Depot 45K5971
ThinkPlus 3-year P&L P/U Depot 45K5972
ThinkPlus 4-year P&L P/U Depot 45K5974
ThinkPlus 5-year P&L P/U Depot 45K5976
Post-warranty annual maintenance agreements at **lenovo.com**/thinkplus/warranty

See footnotes for important warranty information
✶ Intel Centrino® processor technology
✣ Intel Centrino 2 processor technology
☞ US models announced September 28, 2010; previous models on October 22, November 17, or December 15, 2009, or April 6, 2010
✂ US models withdrawn effective February or December 2010 or January 2011

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ThinkPad® SL510 2847 (GMA) - TopSeller (Windows 7) - January 2011

Type-model	proc-essor	GHz	Memory	Wide-screen display	CCFL or LED	Cam-era	Inte-grated graphics	Disk SATA GB[8] rpm	SATA optical	Mini PCIe 802.11 wireless	Mini PCIe WWAN	Blue-tooth	Finger print reader	Bat-tery cells	Preload	Avail date
2847-DJU	T6670	2.20	*4GB*	15.6" HD	LED	0.3M	GMA	500G 7200	DVD±RW	✶11n[28]	None	None	None	6	Home P	Jan 11
2847-DKU	T6670	2.20	2GB	15.6" HD	LED	0.3M	GMA	250G 5400	DVD±RW	✶Intel 1000[28]	None	None	None	6	Home P	Jan 11

- ***These small and medium business (SMB) models are part of the US TopSeller™ Program***
- ***These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)***

Processor	**Intel® Core™ 2 Duo processor T6670** with **dual-core**, 800MHz system bus, and 2MB L2 cache
Memory	**2GB** or **4GB** std / 8GB max[7] / PC3-8500 1066MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; *Italics:* standard memory in both sockets; no sockets available; *Non-italics:* standard memory in one socket; one socket available
SATA DVD±RW SATA disk	DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable, tray-in **250GB**[8] (5400 rpm) or **500GB** (7200 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high, removable, upgradable, ThinkPad Shock Mounted Hard Drive, Active Protection System™
Widescreen display Camera	**15.6"** (395mm) **HD (1366x768) color**, anti-glare, **LED backlight**, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio Camera on top of screen, 0.3-megapixel, fixed focus
Integrated graphics	**Intel Graphics Media Accelerator 4500MHD (GMA 4500MHD)**, in GM45, HDMI port supporting HDCP to output protected content *Max external resolution:* 2048x1536@75Hz (VGA DB-15 port); 1920x1080 (HDMI port)
Keyboard TrackPoint® Touch pad Lighting FX	6-row, ThinkVantage button, spill-resistant, multimedia Fn keys, Windows and App keys TrackPoint® pointing device, Internet Scroll Bar[13], magnifying glass UltraNav™, wide touch pad below keyboard, Tap Zones, scrolling regions label, multi-touch Illuminated power button
Dimensions[3] Weight[2] Case Battery - type[37] Battery - life[10]	*4/6-cell 15.6W" (WxDxH):* 14.9" x 9.72" x 1.26–1.42"; 380 x 247mm x 32–36mm *4-cell:* starting at 5.17 lb (2.35kg); *6-cell:* starting at 5.64 lb (2.56kg) *Color:* ThinkPad Matte Black; *Material:* Scratch-resistant ABS plastic Lithium Ion **6-cell** *6-cell:* up to 4.0 hr; *9-cell:* up to 6 hr
Chipset	**Mobile Intel GM45 Express Chipset** (Graphics Memory Controller Hub), ICH9M I/O Controller Hub (SATA 3.0Gb/s, USB 2.0, PCI Express® 1.1, PCI 2.3, ethernet MAC), LPC bus (IT8752)
ExpressCard	One slot (ExpressCard/34)
Multicard reader	7-in-1 reader (MMC, Memory Stick, Mem Stick Pro, SD, SDHC, XD, XD Type H)
PC Card	None
Smart Card read	None
Ports	Three USB 2.0, one eSATA/USB combo port, external monitor (VGA DB-15, HDMI), ethernet (RJ-45)
Mini PCI Express 11n[28] Intel 1000[28] WWAN upg	One Mini PCI Express slot *Some:* 11b/g/n wireless[4], Mini-PCIe Adapter II *Some:* 11b/g/n wireless, Mini PCIe adapter, Intel Centrino® Wireless-N 1000, 1x2 None
Modem	None
Bluetooth™	None
Ethernet	Realtek® RTL8111DL Gigabit Network Connection, PHY, PCIe x1
Intel AMT	None
Audio support	High Definition (HD) Audio, ALC269Q codec / stereo speakers, 1.5 watt / speaker volume up, down and mute buttons / mono microphone, mic mute button, mic input jack, headphone jack
Security	Power-on password, hard disk password, supervisor password, security keyhole
Security chip	None
Fingerprint reader	None
Limited warranty[12]	**1-year** - depot repair service / service upgrades[22] available

Preloaded operating system[20]
- Genuine Windows® 7 Home Premium 64

Preloaded applications[14] (only some listed)
- Rescue and Recovery™
- Access Connections™
- Password Manager
- ThinkVantage Power Manager
- ThinkVantage System Update
- ThinkVantage Toolbox
- Adobe® Reader®
- Adobe Flash® Player
- Skype™ for Windows
- Microsoft Office 2010 preloaded; purchase product key to activate
- Roxio® Creator® Business Edition (DVD±RW)
- Roxio MyDVD® (DVD±RW)
- Corel® WinDVD® (DVD±RW)

Supports ThinkVantage® technologies

65-watt (GMA graphics) AC adapter
EPEAT™ Gold rating
ENERGY STAR® 5.0-compliant
RoHS-compliant
International Warranty Service[17]
24 hour x 7 day[18] toll-free support during the warranty period[12] via 800-426-7378

ThinkPlus™,[22] 1-year LOR[24] 9x5 NBD 45K5968
ThinkPlus 2-year LOR 9x5 NBD 45K5969
ThinkPlus 3-year LOR 9x5 NBD 45K5970
ThinkPlus 4-year LOR 9x5 NBD 45K5973
ThinkPlus 5-year LOR 9x5 NBD 45K5975
ThinkPlus 2-year P&L P/U Depot 45K5971
ThinkPlus 3-year P&L P/U Depot 45K5972
ThinkPlus 4-year P&L P/U Depot 45K5974
ThinkPlus 5-year P&L P/U Depot 45K5976
Post-warranty annual maintenance agreements at **lenovo.com**/thinkplus/warranty

See footnotes for important warranty information
US models announced January 11, 2011

✶ Intel Centrino® processor technology
✣ Intel Centrino 2 processor technology

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ThinkPad® SL510 Accessories

Memory

1GB PC3-8500 DDR3 Low-Halogen SODIMM	55Y3706	*ann*	*06/23/09*
1GB PC3-8500 DDR3 L-H SODIMM (25-Pack)	57Y4385	*ann*	*06/23/09*
2GB PC3-8500 DDR3 Low-Halogen SODIMM	55Y3707	*ann*	*06/23/09*
2GB PC3-8500 DDR3 L-H SODIMM (25-Pack)	57Y4386	*ann*	*06/23/09*
4GB PC3-8500 DDR3 Low-Halogen SODIMM	55Y3708	*ann*	*06/23/09*
1GB PC3-10600 DDR3 L-H SODIMM	55Y3709	*ann*	*03/02/10*
1GB PC3-10600 DDR3 L-H SODIMM (25Pack)	57Y4415	*ann*	*03/02/10*
2GB PC3-10600 DDR3 L-H SODIMM	55Y3710	*ann*	*03/02/10*
2GB PC3-10600 DDR3 L-H SODIMM (25Pack)	57Y4416	*ann*	*03/02/10*
4GB PC3-10600 DDR3 L-H SODIMM	55Y3711	*ann*	*03/02/10*

Storage and removable storage

SL410/510 500GB Disk SATA 3G/s (5400 rpm)	43N3422	*ann*	*10/22/09*
USB 2.0 Portable 320GB Hard Disk	45K1689	*ann*	*03/17/09*
USB 2.0 Portable 500GB Hard Disk	45K1690	*ann*	*05/26/09*
USB 2.0 Portable Secure 320GB Hard Disk	43R2019	*ann*	*11/18/08*
eSATA/USB 2.0 Secure 500GB Hard Drive	57Y4400	*ann*	*01/07/10*
Lenovo Slim USB Portable DVD Burner	0A33988	*ann*	*06/14/11*

ThinkPad Expansion

Lenovo® Essential Notebook Stand	45J9292	*ann*	*05/12/09*
USB 2.0 Port Replicator with Digital Video	0A33942	*ann*	*03/22/11*

Keyboard

TrackPoint Cap Collection	73P2698	*ann*	*12/16/03*
USB Numeric Keypad	33L3225	*ann*	*05/01/00*
Preferred Pro USB Keyboard	73P5220	*ann*	*06/21/05*
Enhanced Performance USB Keyboard	73P2620	*ann*	*03/23/04*
Lenovo Mini Wireless Keyboard N5901[52] (blk)	57Y6336		
Ultraslim Wireless Keyboard and Mouse[52]	57Y4700	*ann*	*09/15/09*

[52] Wireless via 2.4GHz technology using a micro-size USB receiver.

ThinkPad USB Keyboard with TrackPoint	55Y9003	*ann*	*08/18/09*
Preferred Pro USB Fingerprint Keyboard	73P4730	*ann*	*02/22/05*
Lenovo USB Smartcard Keyboard	51J0155	*ann*	*03/24/09*

Mouse

Lenovo Optical Mouse (USB)	06P4069	*ann*	*05/21/03*
Lenovo Laser Mouse (USB)	41U3074	*ann*	*01/23/07*
ThinkPad USB Laser Mouse	57Y4635	*ann*	*12/15/09*
Lenovo ScrollPoint® Mouse (USB, Optical)	31P7405	*ann*	*08/27/02*
ThinkPad Travel Mouse (USB, Optical)	31P7410	*ann*	*06/04/02*
ThinkPad Bluetooth Laser Mouse	41U5008	*ann*	*01/22/08*
Lenovo Optical Mouse A6010 (black)	57Y6255		
Lenovo Mini Optical Mouse M20B	55Y2091		
Lenovo Wireless Mouse N30B (black)	55Y9360		

Security

Kensington® MicroSaver® Cable Lock	73P2582	*ann*	*12/29/03*
Kensington Twin Head Cable Lock	45K1620	*ann*	*09/30/08*
Lenovo Security Cable Lock	57Y4303	*ann*	*08/24/10*
USB Gemplus GemPC Smart Card Reader	41N3040	*ann*	*02/21/06*

Multimedia

ThinkPad In-Ear Headphones with mic	57Y4488	*ann*	*01/07/10*
Lenovo Mini Speakers M220	55Y2033	*ann*	*01/07/10*
Lenovo Headphone P550	55Y2065		

Modem

USB 2.0 Lenovo Modem	43R1814	*ann*	*02/26/08*

Batteries[37]

ThinkPad Battery 25 (4-cell)	51J0498	*ann*	*10/22/09*
ThinkPad Battery 25+ (6-cell)	51J0499	*ann*	*10/22/09*
ThinkPad Battery 25++ (9-cell)	51J0500	*ann*	*10/22/09*
ThinkPad External Battery Charger[44]	40Y7625	*ann*	*09/20/05*

[44] Requires the *ThinkPad 90W AC Adapter 40Y7659* or the adapter provided with the system.

More information at **www.lenovo.com/alldaycomputing**

ThinkPad 65W AC Adapter[45]	40Y7696		

[45] Only compatible with the integrated graphics models.

ThinkPad 90W AC Adapter	40Y7659	*ann*	*09/20/05*
ThinkPad 65W AC Adapter with USB Hub	57Y4600	*ann*	*09/07/10*
90W Ultraslim AC/DC Combo Adapter	41R4493	*ann*	*09/22/09*

More info at **www.lenovo.com/support/poweradapters**

Charging tips for 90W Ultraslim AC/DC Combo Adapter 41R4493

•iPod and iPhone Charge Tip (L10a)	41R4481	*ann*	*12/18/07*
•Generic Micro USB charge tip (L18)	41R4490	*ann*	*01/06/09*

More information at **www.lenovopowertips.com**

Carrying Cases

Up to 15.6" widescreen models:

ThinkPad 15W Case Sleeve	51J0477	*ann*	*08/18/09*
Lenovo Business Messenger Case	51J0475	*ann*	*08/18/09*
Lenovo Messenger Max	41U5253	*ann*	*05/01/07*
Lenovo Performance BackPack	41U5254	*ann*	*05/01/07*
ThinkPad Business Backpack	43R2482	*ann*	*05/13/08*

More information at **www.lenovo.com/support/cases**

Monitors

ThinkVision® L1711p 17" Monitor	5047HB2	*ann*	*10/20/09*
ThinkVision L1900p 19" Monitor	4431HE1	*ann*	*11/11/08*
ThinkVision L1951p Wide 19" Monitor	2448HB6	*ann*	*10/20/09*
ThinkVision L2250p Wide 22" Monitor	2572HB6	*ann*	*10/20/09*
ThinkVision L2251p Wide 22" Monitor	2572HD6	*ann*	*10/20/09*
ThinkVision L2251x Wide 22" Monitor	2578HB6	*ann*	*10/20/09*
ThinkVision L2321x Wide 23" Monitor	4014HB6	*ann*	*06/10/10*
ThinkVision L2440p Wide 24" Monitor	4420HB2	*ann*	*09/17/08*

More information at **www.lenovo.com/support/monitors**

Monitor Accessories[46]

ThinkVision USB Soundbar	40Y7616	*ann*	*08/23/05*
ThinkVision Soundbar	45K1263	*ann*	*09/16/08*
Kensington MicroSaver Cable Lock	73P2582	*ann*	*12/29/03*
Kensington Twin Head Cable Lock	45K1620	*ann*	*09/30/08*
Lenovo Security Cable Lock	57Y4303	*ann*	*08/24/10*
Lenovo Easy Reach Monitor Stand	55Y9258	*ann*	*09/22/09*

[46] Compatible on selected Lenovo and ThinkVision monitors.

More information at **www.lenovo.com/support/monitoraccessories**

For more information on accessories:

www.lenovo.com/accessories
Purchase Lenovo accessories

www.lenovo.com/support/accessories
Product specifications on Lenovo Support

www.lenovo.com/accessoriesguide
Option Compatibility Matrix (OCM) and accessory brochures

www.lenovoquickpick.com
An Options Compatibility Configurator for Lenovo systems

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ThinkPad® Edge & SL- TopSeller Services

The TopSeller™ services are designed to make selling the popular services with TopSeller systems faster and easier. Channel partners should always use TopSeller services with TopSeller systems. TopSeller services part numbers typically provide enhanced discounts and incentives for channel partners. The TopSeller service delivered to the customer is identical to the service delivered using a standard service part number. In situations where a desired service is not offered under a TopSeller service part number or the sale requires a special bid process, use available standard service part numbers.

TopSeller services should always be offered by channel business partners with TopSeller hardware, unless the sale requires special bid pricing or the desired service not offered as a TopSeller service part.

For more information see:

http://www1.partnerinfo.lenovo.com/us/en/salestoolkit.shtml

TopSeller service upgrade options for ThinkPad Edge & SL Series

ThinkPad Edge E220s/E420s Sealed Battery notebooks with 1-year Depot warranty

3-year parts and labor depot repair service with Battery Replacement	04W8702
3-year parts and labor depot repair service with Battery Replacement & ThinkPad Protection	04W8704
3-year LOR 9x5 Next Business Day with Battery Replacement	04W8703
3-year LOR 9x5 Next Business Day with Battery Replacement & ThinkPad Protection	04W8705

ThinkPad Edge & SL notebooks with 1-year Depot warranty

3-year parts and labor depot repair service	04W8706
3-year parts and labor depot repair service & ThinkPad Protection	04W8708
3-year LOR 9x5 Next Business Day	04W8707
3-year LOR 9x5 Next Business Day & ThinkPad Protection	04W8709

TopSeller Priority Support

- 24x7 support with priority routing and advanced level technicians

ThinkPad Edge & SL notebooks with 1-year Depot warranty

Add to 3-year warranty coverage - 3-year Priority Support*	04W8720

* Covered machine must have concurrent warranty coverage.

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ThinkPad® Edge & SL - ThinkPlus™ Services

Partial list of Lenovo® ThinkPlus Services[22] for ThinkPad Edge notebooks

For more information see: **http://www.lenovo.com/services_warranty/us/en/index.html**

ThinkPlus service upgrade options for ThinkPad Edge series

ThinkPad Edge notebook with 1-year Depot warranty

2-year parts and labor depot repair service	45K5971
3-year parts and labor depot repair service	45K5972
4-year parts and labor depot repair service	0A34460
1-year LOR 9x5 Next Business Day	45K5968
2-year LOR 9x5 Next Business Day	45K5969
3-year LOR 9x5 Next Business Day	45K5970
4-year LOR 9x5 Next Business Day	0A34462

ThinkPlus service upgrade options for ThinkPad SL series

ThinkPad SL notebook with 1-year Depot warranty

2-year parts and labor depot repair service	45K5971
3-year parts and labor depot repair service	45K5972
4-year parts and labor depot repair service	45K5974
1-year LOR 9x5 Next Business Day	45K5968
2-year LOR 9x5 Next Business Day	45K5969
3-year LOR 9x5 Next Business Day	45K5970
4-year LOR 9x5 Next Business Day	45K5973

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Availability: All offers subject to availability. Lenovo reserves the right to alter product offerings and specifications at any time, without notice. Lenovo is not responsible for photographic or typographic errors.

Warranty: For a copy of applicable product warranties, write to: Warranty Information, P.O. Box 12195, RTP, NC, 27709, Attn: Dept ZPYA/B676. Lenovo makes no representation or warranty regarding third party products or services.

Footnotes:

[1] Power management, including Intel® SpeedStep® Technology, reduces processor speed when in battery mode.

[2] **Weight** includes battery and standard optical drive; weight may vary due to vendor components, manufacturing process and options.

[3] **Thinness** may vary at certain points on the system.

[4] **Wireless capability:** Requires compatible wireless-enabled options sold separately.

[6] **Public network download modem speeds** are limited to 53Kbps. Upload speeds are limited to 48Kbps for V.92 modems. Actual speeds depend on many factors and are often less than the maximum possible. V.92 functions and speeds require compatible phone line and server equipment. Check with your telephone and ISP service providers for availability.

[7] **Maximum memory capacity** may require the replacement of standard component with largest supported component available. On ThinkPad systems, even though it is possible to physically install 4GB of memory, the actual amount of memory addressable by a 32-bit operating system will be limited to 3GB. This limitation does not exist with 64-bit operating systems.

[8] **Hard drive:** GB = billion bytes, TB = trillion bytes. Accessible capacity is less; up to 4GB is service partition.

[10] **Battery:** These model numbers achieved the battery life based on MobileMark® 2007 during testing. Battery life (and recharge times) will vary based on many factors including screen brightness, applications, features, power management, battery conditioning, and other customer preferences.

[12] **Limited warranty:** Support unrelated to a warranty issue may be subject to additional charges.

[13] **Internet access not included.**

[14] **Included software** may differ from its retail version (if available), and may not include user manuals or all program functionality. Software license agreements may apply.

[16] **Activating Verizon Wireless Service:** Lenovo customers will be contacted after purchase to activate service; requires separate agreement with Verizon Wireless and is subject to the Customer Agreement, Calling Plan, and credit approval. Service, airtime, and early termination charges may apply. Verizon Wireless, not Lenovo, is solely responsible for service. Service not available in all areas; purchaser is responsible for verifying that service is available for the intended location before purchasing a computer equipped with WAN card. Network details, coverage limitations, and maps at www.verizonwireless.com.

[17] **International Warranty Service** is available in any country in which this product is sold and serviced. Service delivery methods and parts availability vary by country, may be different from that in the country of purchase, and are subject to change without notice. Fees and restrictions may apply in some countries.

[18] **Telephone support** may be subject to additional charges, even during the limited warranty period. Response times may vary. May exclude some holidays. If a machine is listed as having "On-site service for select repairs", this means that onsite service is available only for the replacement of select parts. For all other warranty repairs, Lenovo will provide the customer a replacement part for customer installation. The parts for which onsite service is available varies by machine, but may include the processor, power supply, heat sink, system board, or base cover. For ThinkPad notebooks with EasyServ or Courier service, Lenovo will attempt to diagnose and resolve the problem remotely before sending a courier.

[19] **EasyServ depot repair service:** In the United States call 1-800-426-7378. The customer may be asked certain diagnostic questions before a courier is sent. Your ThinkPad purchase includes this depot repair service, available in the U.S. during the limited warranty period.

[20] **Operating System:** Level of support varies by operating system. Operating systems not preloaded on the system may not provide full feature functionality. Refer to lenovo.com/pc/support and enter your machine type and model number for more information.

[22] **ThinkPlus Services:** These services are available for machines normally used for business, professional, or trade purposes, rather than personal, family, or household purposes. Not all machine types and models are covered. Service period begins with the equipment date of purchase. Service must be purchased during the original limited product warranty period. Service levels are response time objectives and are not guarantees. If the machine problem turns out to be a Customer Replaceable Unit (CRU), a part will be express shipped to you for quick replacement. Onsite 24x7x2-hour service is not available in all locations. For ThinkPad notebooks requiring LCD or other component replacement, Lenovo may choose to perform service at the depot repair center. Calls must be received by 5 pm local time in order to qualify for Next Business Day service. P&L means parts and labor. P/U means pick-up. See ThinkPlus terms and conditions for complete details and restrictions.

[23] **Activating AT&T Wireless Service:** Requires separate agreement with AT&T, subject to service agreement, rate plan and coverage maps. AT&T, not Lenovo, is solely responsible for service. Coverage not available in all areas; AT&T BroadbandConnect available in select metropolitan markets. Special credit and tenure restrictions and additional charges may apply to international roaming. A network connection, third-party software, additional hardware, and/or subscription to a third-party service may be required for certain solutions/applications. Additional restrictions apply, including early termination fee; see www.wireless.att.com for details. To activate call Lenovo Wireless Activation Hot Line at 1-877-299-4710.

[24] **Limited onsite service systems** are designed to be repaired during the applicable warranty period primarily with customer-replaceable parts provided by Lenovo. Lenovo will only send a technician onsite to perform a repair if (a) remote telephone diagnosis and/or customer part replacement are unable to resolve the problem, or (b) the part is one of the few designated by Lenovo for onsite replacement. For a list of onsite replaceable parts, contact Lenovo. In the United States call 1-800-426-7378. Support unrelated to a warranty issue may be subject to additional charges. Lenovo onsite repair (LOR), 8 am to 5 pm, Monday through Friday coverage excluding holidays, next business day (NBD) response time.

[27] **Based on IEEE 802.11a and 802.11b.** A customer can not upgrade to a different wireless Mini PCI adapter due to FCC regulations. Security screws prevent removal of this adapter. This wireless LAN product has been designed to permit legal operation world-wide in regions which it is approved. This product has been tested and certified to be interoperable by the Wireless Ethernet Compatibility Alliance and is authorized to carry the Wi-Fi logo.

[28] **The IEEE 802.11n specification (MIMO)** has been finalized and is currently in IEEE 802.11n-2009 release. The maximum speed depends on the access point device and the number of integrated antenna used for connection. An adapter with 11a/b, 11a/b/g, 11b/g/n, or 11a/b/g/n can communicate on any of its supported formats.

[30] **Measures only maximum** data transfer rate, not application performance. Many factors affect application performance.

[32] **Wireless:** Based on IEEE 802.11a, 802.11b, and 802.11g respectively. An adapter with 11a/b, 11b/g, or 11a/b/g can communicate on either/any of these listed formats respectively, the actual connection will be based on the access point to which it connects.

[35] **Operating system:** Level of support varies by operating system. Operating systems not preloaded on the system may not provise full feature functionality. Refer to **lenovo.com**/think/support and enter your machine type and model number for more information.

[37] **Battery:** The ThinkPad Edge and ThinkPad SL series do not support batteries that are not genuine Lenovo-made or authorized. These systems will continue to boot, but may not charge unauthorized batteries. **Warning:** Lenovo has no responsibility for the performance or safety of unauthorized batteries, and provides no warranties for failures or damage arising out of their use.

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